

# Global Competency and Outcomes Framework for Universal Health Coverage



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ISBN 978-92-4-003466-2 (electronic version) ISBN 978-92-4-003467-9 (print version)

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### Foreword

Achieving the collective commitment to universal health coverage by 2030 requires a health workforce that is equipped to provide the full range of essential health services. This means a health workforce with the education, support and supervision to provide quality, people-centred, integrated health services.

Competency-based education is the most effective approach to ensuring preparedness for practice. Amidst the response to and recovery from the COVID-19 pandemic, Member States have an opportunity to invest in strengthening competency-based health worker education that will bring dividends in health, jobs, global health security, economic opportunity and gender equity.

This Global Competency and Outcomes Framework for Universal Health Coverage is addressed to Member States and education institutions to support them to identify health worker education outcomes; integrate those competencies within education programmes; establish standards for practice; and build performance appraisal tools oriented towards the health services of the quality standards that meet population health needs. With this framework, WHO sets out its recommended approach to competency-based health worker education outcomes; in so doing, it also provides conceptual and terminological clarity.

The framework results from the excellent collaboration among leading experts in the field, many of whom have been very generous with their time and insights to guide its iterative development. That development process has made clear that we must think not only about the number of health workers we need to educate and employ, but also about what that education looks like, what the content should be, how we determine what an acceptable passing standard is, and how these adult learners can best achieve the learning outcomes they need to meet the health needs of the populations that they serve.

The framework incorporates some of the often-overlooked outcomes that underpin the provision of individual health services, such as collaborative practice and respectful care. Further it emphasizes the need to prepare health workers for the teams and settings in which they may practice, the individual and population health services they may provide – including emergency preparedness and response – and the related management and organizational activities.

I thank all the WHO staff and national experts who guided this publication to completion and encourage its application as a resource to align health worker education programmes with population health needs.

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# Acknowledgements

The development of the Global Competency and Outcomes Framework for Universal Health Coverage (UHC) was led by Siobhan Fitzpatrick, with technical inputs from Ibadat Dhillon and Giorgio Cometto, and under the strategic oversight of James Campbell, Health Workforce Department, World Health Organization (WHO).

WHO is grateful to members of the Education Working Group, who provided technical input to the development of the conceptualization and elaboration of the framework. Without their support, guidance and expertise this work would not have been possible: lan Bates (International Pharmaceutical Federation, the Netherlands), Henry Campos (The Network: Towards Unity for Health, Brazil), Wanicha Chuenkongkaew (Mahidol University, Thailand), Address Malata (University of Malawi, Malawi), Senthil Kumar Rajasekaran (World Federation for Medical Education, Wayne State University School of Medicine, United States), Sean Tackett (Johns Hopkins Bayview Medical Center, United States), Olle ten Cate (University Medical Center Utrecht, the Netherlands), Val Wass (World Organization of Family Doctors (WONCA), United Kingdom) and Cynthia Whitehead (University of Toronto, Canada).

WHO thanks the many colleagues, stakeholder organizations and individual educators, practitioners, regulators and students whose dedicated efforts and expertise contributed to the development, drafting and finalization of the framework. Special thanks for their considerable time in providing feedback and invaluable advice on draft iterations of the Global Competency and Outcomes Framework for UHC go to Nadia Cobb (University of Utah, World AMTC Network), Sabiha Essack (University of KwaZulu-Natal), Diana Frymus (United States Agency for International Development), Kristine Gebbie (Independent), Indrajit Hazarika (WHO Regional Office for the Western Pacific), Michael Kidd (Australian Government Department of Health), Margrieta Langins (WHO Regional Office for Europe), Akiko Maeda (World Bank), Jody-Anne Mills (WHO Department of Noncommunicable Diseases), Katherine Rouleau (University of Toronto), Lois Schaefer (United States Agency for International Development), Alison Schafer (WHO Department of Mental Health and Substance Use), Mary Showstark (Yale University) and Dave Stewart (International Council of Nurses).

The framework has benefited from the rich inputs from members of the Global Health Workforce Network Education Hub, WHO collaborating centres, participants at consultation events and members of WONCA World who have provided feedback and guidance on iterative drafts of the framework, notably Mohamed Elhassan Abdalla (University of Limerick), David Addiss (Task Force for Global Health), Lina Bader (International Pharmaceutical Federation), Sabine Bährer-Kohler (International University of Catalonia), Philip Begg (International Academy of Physician Associate Educators), Sudip Bhandari (Johns Hopkins University), Vince Blaser (IntraHealth International), Charles Boelen (Réseau International Francophone pour la Responsabilité Sociale en Santé), David Bor (Cambridge Health Alliance), Andrew Nelson Brown (IntraHealth International), Andreia Bruno (International Pharmaceutical Federation), William Burdick (Foundation for the Advancement of International Medical Education Research), Howard Catton (International Council of Nurses), Adriana Cavalcanti de Aguiar (Fiocruz Ministry of Health), Somu Chatterjee (International Academy of Physician Associate Educators), Meena Cherian (Geneva Foundation for Medical Education and Research), Mellick Chehade (University of Adelaide), Robin Churchill (Clinton Health Access Initiative), Kristina Collins (World Dental Federation), Maria Cordina (University of Malta), Jan De Maeseneer (Ghent University), Aikaterini Dima (International Federation of Medical Student Associations), Natasha D'Lima (Corvus Health), Ncoza Dlova (International League of Dermatological Societies), Michalina Drejza (Poznan University of Medical Sciences), Malike Fair (Association of American Medical Colleges), James Field (Association of Dental Education in Europe), Julian Fisher (State University of New York Upstate Medical University), Claire Fuller (International League of Dermatological Societies), John Gilbert

(University of British Columbia), David Gordon (World Federation for Medical Education), Ashley Graham (Task Force for Global Health), Jennene Greenhill (Flinders University), Roderick Hay (International League of Dermatological Societies), Amanda Howe (WONCA World), Alan Okwuchukwu Ibeagha (United Nations Children's Fund), Peter Johnson (Jhpiego), Ramprakesh Kaswa (Walter Sisulu University), Holm Keller (kENUP Foundation), Deborah Kopansky-Giles (World Federation of Chiropractic), Juergen Laartz (EDU), Lesley-Anne Long (Independent), Cinthya Lucio (Mexico Ministry of Health), David Lusale (International Academy of Physician Associate Educators), Anne MacFarlane (University of Limerick), Alias Mahmud (National University of Malaysia), Claire Mahon (Health Service Executive), Silvina Malvarez (National University of Córdoba), Dianne Manning (University of Pretoria), Viviana Martinez Bianchi (WONCA), Caline Mattar (World Medical Association Junior Doctors Network), Lyn Middleton (University of KwaZulu-Natal), Sharon Mitchell (World Heart Federation), Najia Musolino (International Society of Geriatric Oncology), Nikolai Nunes (Jamaica Medical Students' Association), Lucinda O'Hanlon (Office of the United Nations High Commissioner for Human Rights), Sally Pairman (International Confederation of Midwives), Neil Pakenham-Walsh (Health Information for All), Björg Pálsdóttir (Training for Health Equity Network: TheNET), Ilya Plotkin (TRAIN Public Health Foundation), Eleni Politi (Independent), Bahie Rassekh (World Bank and Baha'i Institute for Higher Education), Melody Redman (Leeds Teaching Hospitals NHS Trust), Sandra M. Rowan (Independent), Asma Mohamed Sharif (Imam Abdulrahman Bin Faisal University), Neel Sharma (Queen Elizabeth Hospital Birmingham, University of Birmingham), Karolina Socha-Dietrich (Organisation for Economic Co-operation and Development), Anna Stavdal (WONCA World), Alessandro Stievano (International Council of Nurses), Kazumi Tanaka (Gunma University Graduate School of Medicine), Andrea Tenner (University of California San Francisco), Denise Traicoff (Centers for Disease Control and Prevention, Center for Global Health), Kate Tulenko (Corvus Health), Barbara Westwood (Independent), Geoff Westwood (Independent) and David Williams (World Dental Federation).

Finally, WHO thanks the following personnel who contributed to the framework: Jonathan Abrahams (Health Security Preparedness Department), Ayat Abu-Agla (Health Workforce Department), Onyema Ajuebor (Health Workforce Department), Jhilmil Bahl (Immunization, Vaccines and Biologicals Department), Anshu Banerjee (Department of Maternal and Child Health), Shannon Barkley (Department of Integrated Health Services), Melissa Kleine-Bingham (Quality of Care), Annie Chu (Viet Nam WHO Country Office), Laurence Codjia (Health Workforce Department), Vânia de la Fuente-Núñez (Department of Social Determinants of Health), Khassoum Diallo (Health Workforce Department), Meg Doherty (Global HIV, Hepatitis and STIs Programmes), Guy St John Douds Fones Illanes (Department of Noncommunicable Diseases), Nathan Ford (Global HIV, Hepatitis and STIs Programmes), Jose Garcia Gutierrez (Department of Health Systems and Services, Pan American Health Organization), Julie Gustavs (WHO Academy), Luther Gwaza (Regulation and Prequalification Department), Minna Hakkinen (Patient Safety Flagship), Qudsia Huda (Health Security Preparedness Department), André Ilbawi (Cancer Programmes), Robert Jakob (Department of Data and Analytics), Richard James (Viet Nam WHO Country Office), Catherine Kane (Health Workforce Department), Umit Kartolgu (Immunization, Vaccines and Biologicals Department), Rania Kawar (Health Workforce Department), Lindsey Lee (Department of Noncommunicable Diseases), Paul Marsden (Health Workforce Department), Carey McCarthy (Health Workforce Department), Frances McConville (Department of Maternal and Child Health), Megan McCoy (Medicines and Health Products Department), Michelle McIsaac (Health Workforce Department), Nana Mensah Abrampah (Quality of Care), Lorenzo Moja (Essential Medicines List), Allyson Moran (Department of Maternal and Child Health), Manjulaa Narasimhan (Department of Sexual and Reproductive Health and Rights), Asiya Odugleh-Kolev (Quality of Care), Giulia Oggero (Health Products Policy and Standards), Irina Papieva (Patient Safety Flagship), Mercedes Perez Gonzalez (Essential Diagnostics List Secretariat), Peter Preziosi (WHO Academy), Annette Prüss-Ustün (Department of Environmental, Climate Change and Health), Teri Reynolds (Department of Integrated Health Services), David Ross (Department of Maternal and Child Health), Julia Samuelson (Global HIV, Hepatitis and STIs Programmes), Kylie Shae (Health Products Policy and Standards), David Schellenberg (Global HIV, Hepatitis and STIs Programmes), Amani Siyam (Health Workforce

Department), Emma Tebbutt (Health Products Policy and Standards), Nicole Valentine (Department of Social Determinants of Health), Benoit Varenne (Department of Noncommunicable Diseases), Cherian Varghese (Department of Noncommunicable Diseases), Adriana Velazquez Berumen (Medical Devices and In Vitro Diagnostics), Kerri Viney (Global TB Programme), Temo Waqanivalu (Department of Noncommunicable Diseases) and Pascal Zurn (Health Workforce Department).

WHO also thanks participants and contributors for their feedback during the following meetings and workshops: WHO Independent High-level Commission on Noncommunicable Diseases Working Group on Health Education (February 2018), Midwifery Education Global Advisory Group (March 2018), Malaria Capacity Working Group (March 2018), G20 Health Working Group (May 2018), WHO Working Group on Ensuring Quality in Psychological Support (May 2018), African Forum for Research and Education in Health (July 2018), Towards Unity for Health Network (August 2018), WHO First Global Conference on Air Pollution and Health (August 2018), WHO Informal Consultation on Vision (October 2018), Réseau International Francophone pour la Responsabilité Sociale en Santé (March 2019) and Global Symposium on Health Workforce Accreditation and Regulation (December 2019).

### **Funding**

The production of this document has been made possible through funding support from Germany, Norway, the UHC Partnership (Belgium, European Union, France, Ireland, Japan, Luxembourg, United Kingdom and WHO), and the United States Agency for International Development (USAID).

### Abbreviations

CBE competency-based educationCHW community health worker

**IPC** infection prevention and control

**ISCO** International Standard Classification of Occupations

PPE personal protective equipment

SDG Sustainable Development Goal

**UHC** universal health coverage

**UNESCO** United Nations Educational, Scientific and Cultural Organization

**WHO** World Health Organization

# Glossary

Effective application in different settings of the Global Competency and Outcomes Framework for UHC requires clarity of terms, definitions and concepts. The terms defined here and adopted throughout the framework have been developed through and validated by parallel processes within WHO (1), underpinning the conceptual framework. Where existing definitions have been adopted, the reference is provided.

### Education

Attitude	A person's feelings, values and beliefs, which influence their behaviour and the performance of tasks.	
Behaviour	Observable conduct towards other people or tasks that expresses a competency. Behaviours are measurable in the performance of tasks.	
Competence	The state of proficiency of a person to perform the required practice activities to the defined standard. This incorporates having the requisite competencies to do this in a given context. Competence is multidimensional and dynamic. It changes with time, experience and setting.	
Competencies	The abilities of a person to integrate knowledge, skills and attitudes in their performance of tasks in a given context. Competencies are durable, trainable and, through the expression of behaviours, measurable.	
Competency- based curriculum	A curriculum that emphasizes the complex outcomes of learning rather than mainly focusing on what learners are expected to learn about in terms of traditionally defined subject content. In principle, such a curriculum is learner centred and adaptive to the changing needs of students, teachers and society. It implies that learning activities and environments are chosen so that learners can acquire and apply the knowledge, skills and attitudes to situations they encounter in work environments (2).	
Competency- based education	An approach to preparing [health workers] for practice that is fundamentally oriented to outcome abilities and organized according to competencies. It de-emphasizes time-based training and facilitates greater accountability, flexibility and learner-centredness (3).	
Competency framework	An organized and structured representation of a set of interrelated and purposeful competencies (4).	
Competent	Descriptive of a person who has the ability to perform the designated practice activities to the defined standard. This equates to having the requisite competencies.	

Curriculum	The totality of organized educational activities and environments that are designed to achieve specific learning goals. The curriculum encompasses the content of learning; the organization and sequencing of content; the learning experiences; teaching methods; the formats of assessment; and quality improvement and programmatic evaluation (5).	
Domain	A broad, distinguishable area of content; domains, in aggregate, constitute a general descriptive framework (6).	
In-service education	Any structured learning activity for persons already employed in a service setting (7).	
Interprofessional education	A situation in which learners from two or more occupations learn about, from and with each other (8).	
Knowledge	The recall of specifics and universals, the recall of methods and processes, and/or the recall of a pattern, structure, or setting (9).	
Performance (individual work performance)	What the organization hires one to do and do well (10). Performance is a function of competence, motivation and opportunity to participate or contribute (11). Where competence reflects what a health worker can do, performance is what a health worker does do.	
Practice activity	A core function of health practice comprising a group of related tasks. Practice activities are time limited, trainable and, through the performance of tasks, measurable. Individuals may be certified to perform practice activities.	
Pre-service education	Any structured learning activity that takes place prior to and as a prerequisite for employment in a service setting (7).	
Proficiency	A person's level of performance (for example, novice or expert).	
Skill	A specific cognitive or motor ability that is typically developed through training and practice, and is not context specific.	
Social accountability in education	The obligation of institutions to direct their education, research and service activities towards addressing the priority health concerns of the community, region, and/or nation they have a mandate to serve (12).	
Standard	The level of required proficiency.	
Supervision	The provision of guidance and support in learning and working effectively in health care by observing and directing the execution of tasks or activities and making certain that everything is done correctly and safely, from a position of being in charge (13).	
Task	Observable unit of work within a practice activity that draws on knowledge, skills and attitudes. Tasks are time limited, trainable and measurable.	

### Health

Agency	The power and autonomy people have to think and act for themselves. Agency can take individual and collective forms.		
Collaborative decision-making	A process of engagement in which health workers and individuals, caregivers, families and communities work together to understand health issues and determine the best course of action, beyond the two-way knowledge exchange of shared decision-making (14).		
Collaborative practice	A process by which multiple health workers from different professional backgrounds work together with individuals, caregivers, families and communities to deliver the highest quality of care. It allows health workers to engage any individual whose skills can help achieve local health goals (8).		
Community	A group of people who share common interests, concerns or identities, that may or may not be spatially connected (15).		
Discrimination	Any distinction, exclusion, restriction or preference or other differential treatment that is directly or indirectly based on the prohibited grounds of discrimination and which has the intention or effect of nullifying or impairing the recognition, enjoyment or exercise, on an equal footing, of Covenant rights. Discrimination also includes incitement to discriminate and harassment (16).		
Disease and injury prevention	Specific population-based or individual-based interventions for primary and secondary (early detection) prevention, aiming to minimize the burden of diseases and associated risk factors and to prevent or reduce the severity of bodily injuries caused by external mechanisms, such as accidents, before they occur (17).		
Evidence-informed practice	The integration of the best available evidence with the knowledge and considered judgements from stakeholders and experts to benefit the needs of a population (18).		
Health	Health is a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity (19).		
Health intervention	An act performed for, with, on behalf of, or by an individual, family or community whose purpose is to assess, improve, maintain, promote or modify health, functioning or health conditions (20).		
Health literacy	The cognitive and social skills which determine the motivation and ability of individuals to gain access to, understand and use information in ways which promote and maintain good health (21).		
Health promotion	The process of enabling people to increase control over their health and its determinants through health literacy efforts and multisectoral action to increase healthy behaviours (17).		

People-
centeredness

An approach to care that consciously adopts individuals', caregivers', families' and communities' perspectives as participants in, and beneficiaries of, trusted health systems that are organized in accordance with the comprehensive needs of people rather than individual diseases and respects social preferences. Peoplecentred care also requires that patients have the education and support they need to make decisions and participate in their own care and that caregivers are able to attain maximal function within a supportive working environment. Peoplecentred care is broader than patient- and person-centred care, encompassing not only clinical encounters, but also including attention to the health of people in their communities and their crucial role in shaping health policy and health services (23).

### Social determinants of health

The conditions in which people are born, grow, live, work and age. These circumstances are shaped by the distribution of money, power and resources at global, national and local levels (24).

### **Stigma**

Stigma is a powerful social process of devaluing people or groups based on a real or perceived difference, such as gender, age, sexual orientation, behaviour, or ethnicity (25).

### **Universal health** coverage

Universal health coverage means that all individuals and communities receive the health services they need without suffering financial hardship. It includes the full spectrum of essential, quality health services, from health promotion to prevention, treatment, rehabilitation and palliative care (26).

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# Executive summary

Progress towards universal health coverage (UHC) requires strong health systems and health workers who are educated and empowered to provide the health services that populations need.

Many of the enablers of quality in UHC are system-level elements: health care facilities; medicines, devices and other technologies; information systems; financing; and the health workforce. This framework focuses on the role of education and training of health workers to equip them with the competencies, knowledge, skills and attitudes to provide quality health care that is effective, efficient, equitable, inclusive, integrated, people centred, safe and timely, when working in a system of support, supervision and resources.

The goal of this Global Competency and Outcomes Framework for UHC is to advance improvements in health and progress towards UHC through aligning health worker education approaches with population health needs and health system demands. More specifically, the primary objective of this document is to provide guidance for the specification of pre-service and in-service competency-based education outcomes for health workers, which in turn inform the development of relevant curricula, learning activities and assessment approaches. In addition, the outcomes can also inform related licensing and accreditation mechanisms and promote good practices by managers and individual health workers. Accordingly, its main target audience is health workforce educators, but it can be of relevance also for licensing and regulatory authorities and health service and facility managers.

Competency-based education (CBE) is an outcomes-based approach that situates the knowledge and skills gained in the context of practice and the health services provided, thus emphasizing the mastery of learning to the required performance standard. The action-oriented principles of CBE are associated with better preparedness for practice, learner engagement and health worker performance, with the potential to improve health outcomes of the populations that health workers serve. The learner-centred approach within competency-based education, and the focus on outcomes achieved rather than the process or duration of learning, also offer the potential to promote equity and inclusion through education. A gender and equity lens in health worker education can have a long-lasting transformative effect on both employment and health outcomes.

The growing expectations for health workers include a need to better integrate health promotion into interactions; support individuals, caregivers, families and communities to better manage their health; act as advocates; better navigate the health system and collaborate beyond the health sector, coupled with advances in medicines, health care interventions and technologies; manage the health risks and impacts of emergencies and disasters, including disease outbreaks; and be prepared for shifts in the burden of disease and a growth in noncommunicable diseases.

Competencies are the abilities of a person to integrate knowledge, skills and attitudes, demonstrated through behaviours, in their performance of tasks. In the provision of health services, technical knowledge and procedural skills need to be augmented by competencies such as effective communication, working as a team, and partnering with individuals and communities. The Global Competency and Outcomes Framework for UHC is fundamentally rooted in the premise that quality in health services, and thus the

measure of individual health worker competence, requires a holistic focus on the tasks to be performed and the competencies of the health workers who perform them.

CBE is widely acknowledged as the benchmark for transforming education and training of the health workforce for improved population and health outcomes. However, it has the potential to improve the health of the community only in so far as it uses context-specific health issues to determine the desired outcomes. The Global Competency and Outcomes Framework for UHC is designed with a population needs focus, therefore providing a powerful approach through which to align education strategies in relation to the context, health systems and population health needs. When competencies aligned with population health needs and workforce requirements are used as the organizing framework for curricula, assessment of those competencies is in the context of practice activities within role and responsibility, and progress is defined by competence achieved, the quality and relevance of the skills of new graduates can be assured.

Accompanying the growth of CBE over the last 30 years, there has been an explosion in the number of competency frameworks and competency-based curricular guides focusing on a specific aspect of practice or occupational group. The range of terminologies, conceptualizations and detail has in part contributed to ambiguity and inconsistency in the implementation of CBE, limiting the achievement of its full potential. Further, the necessary resources to identify the competencies for local curricula can be prohibitive, alongside the necessary investment to update and implement curricular change.

The Global Competency and Outcomes Framework for UHC provides clarity on the terms and concepts in CBE and outlines a common approach to developing competency-based curricula organized according to the core functions of health practice, integrating behaviours as performance standards. Second, it identifies the competencies, and their component behaviours, that will best enable health workers to contribute to progress towards UHC. Third, the development of competency-based curricula is illustrated for health workers with a pre-service training pathway of 12–48 months, practising within a system of supervision, support and referral, through a framework of the activities of health practice, named practice activities.

Competence is the state of proficiency of a person to perform the required practice activities to the defined standard. This incorporates having the requisite competencies to do this in a given context. This approach to identifying, and assessing, outcomes can be used to design or redesign curricula to incorporate the content presented in this framework as well as from other frameworks and sources. The framework has been developed through the lens of education but can also be used to define the practice activities and performance standards for the purpose of regulation and employment.

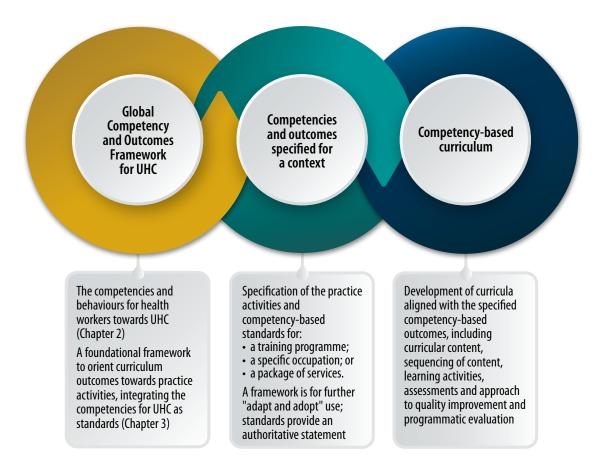
Chapter 1 provides an overview of the underlying educational principles and approaches, and the methodology used to develop the Global Competency and Outcomes Framework for UHC.

Chapter 2 identifies 24 competencies that are relevant to the roles of health workers in contributing to progress towards UHC, and the behaviours through which these competencies are demonstrated in their practice. These competencies are foundational to the provision of quality integrated people-centred health services, and are applicable across occupational groups and settings.

Chapter 3 identifies 35 practice activities, encompassing tasks, that describe the core functions of health practice provided by health workers in primary health care with 12–48 months pre-service education, and which are considered integral to the attainment of UHC. To further guide the development of curricula, illustrative occupational profiles and brief curricular guides accompany each practice activity.

Chapter 4 provides a guide to using the framework and its subsequent applications as illustrated in Figure E.1, as follows: first, the process to contextualize the practice activities and competencies to specify the competency-based outcomes for a specific occupation, setting or set of services (including training programmes beyond 48 months or shorter length programmes); and second, the steps for using these outcomes to develop a competency-based curriculum, including the learning activities and assessments, to enable learners to develop the requisite competencies and underpinning knowledge, skills and attitudes for UHC.

Fig. E.1 Approach to contextualizing the Global Competency and Outcomes Framework for UHC



The Global Competency and Outcomes Framework for UHC will be accompanied by service-specific modules that describe individual health services in terms of its component practice activities. These will be published incrementally to aid the contextualization of curricula to educate health workers to provide the health services that meet population health needs.

### 1. Introduction

### Health workforce as an enabler of universal health coverage (UHC)

Health has a central place in the United Nations Sustainable Development Goals (SDGs), which were adopted by all United Nations Member States in 2015 as a universal call to action. Currently, more than half of the world's population cannot access essential health services, and each year 100 million people are pushed into extreme poverty because of out-of-pocket health care costs (1). The collective commitment to UHC by 2030 aims for all people to have access to the full range of essential health services, from health promotion and injury, disability and disease prevention to treatment, rehabilitation, and palliative care, when and where they need them, without financial hardship (2). Almost all of the SDGs are interrelated and contribute to health directly or indirectly. The strengthening of the health workforce links directly to SDG 3, "Ensure healthy lives and promote well-being for all at all ages", and builds on the agenda for SDG 4 for inclusive and quality education.

In 2016, the World Health Organization (WHO) estimated a shortfall of 18 million health workers by 2030, primarily in low- and middle-income country settings (3). Member States have reaffirmed their commitment to the scale-up of education and training to address health worker shortages (including through World Health Assembly resolutions WHA64.6, WHA66.23, WHA67.24, WHA69.24, WHA69.19, WHA70.6 and WHA72.3; World Health Assembly decision WHA68(11); and Executive Board decision EB140(3)). Optimizing the availability, accessibility, acceptability and quality of the health workforce to contribute towards UHC has the potential to improve population health outcomes, enhance global health security and contribute to economic growth (3). UHC requires not only a scale-up of education programmes, but also a focus on the quality and relevance of those programmes as part of efforts to ensure the right mix of health workers with the right competencies providing services in the right places to better respond to changing population health needs (4).

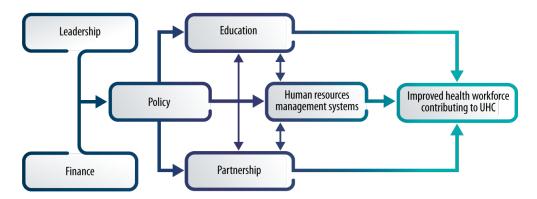
Data show that quality of care in most countries, particularly low- and middle-income countries, is suboptimal (5). Quality within UHC means health services that are effective, equitable, efficient, inclusive, integrated, people centred, safe and timely (6). Quality of health services is critical for achieving UHC that improves population health and health outcomes; however, quality does not come automatically. The five foundational elements critical to delivering quality health care services are health workers; health care facilities; medicines, devices and other technologies; information systems; and financing (5). Ensuring quality in health services is a complex and multifaceted concept that requires the design and simultaneous deployment of combinations of discrete interventions. This framework focuses on the role of health workers in delivering quality health services for which they should be trained.

Figure 1.1 highlights education as one of the key areas to improve the health workforce contribution to UHC. Maximizing the potential of education requires a holistic health labour market approach to ensure the uptake of the population-based approach to defining curricular outcomes, as outlined in this framework. This includes aligning health workforce production with the needs and demands of the health system; equipping the health workforce through appropriate education with the competencies required to effectively meet population needs; ensuring equitable geographical distribution of the health workforce with the right skills

1

mix to provide the health services that meet diverse population needs; and providing decent conditions<sup>1</sup> that ensure gender-transformative employment, support, supervision, training and resources to optimize health worker motivation, retention, distribution and performance (7).

Fig. 1.1 Key areas to improve health workforce management



Source: Adapted from Cometto, Buchan and Dussault (8).

### 1.2 Competency-based education: the foundation for training health workers to address population health needs

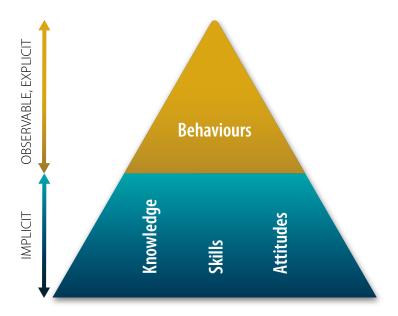
Competency-based education (CBE) is an outcomes-based approach to curricular design, development and implementation that emphasizes the mastery of learning, and the application of knowledge, skills and attitudes in the context of performance, rather than the process of learning and the acquisition of knowledge, skills and attitudes (9). This has implications for the development and design of curricula and the assessment of outcomes achieved through the education programme.

Competencies are a person's abilities to integrate knowledge, skills and attitudes, demonstrated through behaviours, in the performance of tasks in a given context. The model in Figure 1.2 illustrates how, in practice, behaviours are the observable, measurable components of competencies (explicit) encompassing knowledge, skills and attitudes (implicit). Where knowledge provides the informational basis for tasks, skills are the higher-order application, analysis, evaluation and creation of knowledge. The presence or (partial) absence of knowledge, skills and attitudes can be inferred from the presence or absence of the associated behaviours demonstrated through the performance of tasks. In CBE, knowledge, skills and attitudes provide the key foundations for provision of health services – but the emphasis is on the integration and application of those foundations in the context of performance.

The 2010 Lancet Commission report "Health professionals for a new century: transforming education to strengthen health systems in an interdependent world" (10) called for a transformation of education of health professions to strengthen health systems for the 21st century, including incorporating a competency-based approach into curricula that is rooted in health and health system needs, a notion that has since garnered increasing support (7, 11–13). CBE has been a prominent focus of educational reform in resource-rich settings over the last 30 years (9), initially for health professionals in higher-resource settings in Europe, Australia and the Americas, and with a more recent uptake across other settings and across occupations. It has the potential to be a more efficient way of structuring course curricula (14) by incorporating content relevant to

<sup>&</sup>lt;sup>1</sup> Such an integrated package of policies includes job security, a manageable workload, supportive supervision and organizational management, continuing education and professional development opportunities, enhanced career development pathways, family and lifestyle incentives, hardship allowances, housing and education allowances and grants, adequate facilities and working tools, and measures to improve occupational health and safety, including a working environment free from any type of violence, discrimination and harassment (7).

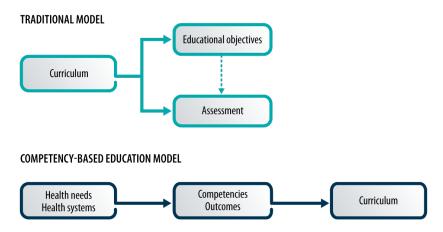
Fig. 1.2 Competencies in the performance of tasks and the relationship with knowledge, skills, attitudes and behaviours



the achievement of outcomes. It is associated with higher assessment scores (15), a generally faster pace of learning (16), decreased variation amongst student outcomes (17), better learner preparedness for assessments (18) and for practice (19), student satisfaction with the relevance of learning (18), and meeting the needs of students, administrators, faculty and patients (20). The learner-centred approach within competency-based education, and the focus on outcomes achieved rather than the process or duration of learning, also offers the potential to promote equity and inclusion through flexible education pathways (21). A gender and equity lens in health worker education can have a long-lasting transformative effect on both employment and health outcomes.

Figure 1.3 depicts the shift from traditional models of education that focus on the curricular content and competence measured through the acquisition of knowledge, skills and attitudes and completed time in training. CBE models of education focus on the application of knowledge, skills and attitudes in the context of defined competencies and outcomes of the programme. Further, programme competencies and outcomes are explicitly defined in relation to health needs and health systems.

Fig. 1.3 Comparison of traditional models of education and CBE



Source: Adapted from Frenk et al. (10).

CBE has the potential to improve the health of the community only in so far as context-specific health issues are used to determine the desired competencies (10). Developing competency-based curricula to meet population health needs is a process that begins first by identifying what those population health needs are; then by defining the outcomes needed to meet those needs; and finally by tailoring the curriculum to meet those outcomes. Achieving the full potential of CBE requires more than the articulation of competencies in a framework; it also requires a range of pedagogies, educational techniques, learning experiences and assessment to support learners to develop the competencies and achieve the defined outcomes. The principles of CBE, summarized in Table 1.1, should guide the (re)design and assessment of competency-based curricula. Without these, CBE becomes little more than traditional forms of education with a more clearly defined set of learning outcomes (22).

Table 1.1 Principles of CBE

Variable	Traditional education	Competency-based education
Driving force for curriculum	Content	Outcome
Goal of educational encounter	Acquisition of knowledge, skills and attitudes	Application of knowledge, skills and attitudes to performance
Driving force for progress	Teacher	Learner
Path of learning	Hierarchical (teacher —> student)	Non-hierarchical (teacher <-> learner)
Responsibility for content	Teacher	Learner, teacher, institution and governing body together
Organization of content	Preclinical and clinical phases	Modular, progressive sequencing
Typical assessment tool	Single measure	Multiple measures ("evaluation portfolio")
Assessment tools	Proxy	Authentic (mimics real tasks of health care)
Setting for evaluation	Gestalt approach (competence determined as the sum of the parts)	Direct observation (competence determined as the integrated whole, more than the sum of the parts)
Evaluation	Norm-referenced	Criterion-referenced standards
Timing of assessment	End of programme (summative)	Regular, continuous (formative) as well as end of programme and continuous (summative)
Programme completion	Fixed time (independent of need)	Variable time (adapted to need)

Source: Adapted from Van Melle et al. (23) and Carraccio et al. (24).

WHO first proposed outcomes-based health worker education organized according to work functions in 1978 (25). Since the 1990s, many health worker education programmes across occupational groups and across regions have integrated a competency-based curricular approach, with an increasing emphasis on the behavioural outcomes alongside functional outcomes. There are concerns however that in some countries there remains a mismatch between education strategies and population needs. In some cases, training programmes are outdated, remain focused on acquisition rather than application of knowledge, and use static curricula that produce ill-equipped health workers (10, 26). At the same time, given the continued disparities in health care access in many of the countries with CBE models, it is apparent that competency-based models will not in themselves ensure that population needs are addressed. For that to happen, those implementing the competency-based curricular approach must consistently apply the population needs lens to all education design. The Global Competency and Outcomes Framework for UHC is designed with a population needs focus, therefore providing a powerful approach through which to align education strategies in relation to the national context, health systems and population health needs.

### 1.3 Aims of the Global Competency and Outcomes Framework for UHC

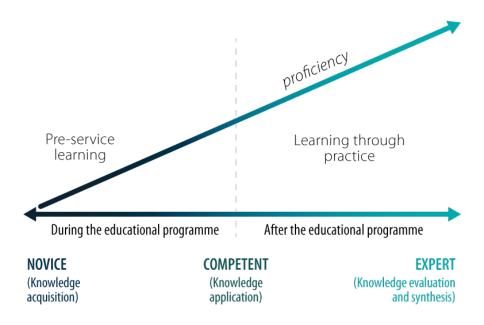
The Global Competency and Outcomes Framework for UHC aims to advance improvements in health and progress towards UHC through aligning health worker education approaches with population health needs and health system demands.

### ► A focus on the integration of competencies into pre-service education, with relevance for in-service education, regulation, employment and career progress

The application of competency and outcomes frameworks extends across education, regulation and employment. The primary focus of the Global Competency and Outcomes Framework for UHC is on informing education programmes to prepare health workers for health practice. The framework can also be used by employers to inform the expectations of health workers in practice; to identify training needs; and to inform the definition of occupational roles and responsibilities, or regulated scopes of practice.

An individual's proficiency – their level of performance – can increase with training and experience. Figure 1.4 illustrates the role of pre-service education in developing the knowledge, skills, attitudes and competencies to achieve the state of proficiency that meets the required standard for practice. This level of proficiency is known as competence. For CBE to be relevant, it is essential that competence is defined externally at the level required for graduates, or in the case of health care, for practice. Further, through defining a shared set of expectations and a common language, outcomes defined at the level of competence can offer increased accountability between education and employment.

Fig. 1.4 The learning continuum in health practice



### Foundational tool to be adopted and adapted by educators and regulators

There is no single standard of competence, as that standard needs to reflect the roles and responsibilities, the level of supervision, the culture and context, and the health services to be provided. The diversity of health services and health priorities in different settings, and the varying resource environments and teams in which health workers practise, require that the Global Competency and Outcomes Framework for UHC be contextualized. The framework is designed to be used through an adapt and adopt approach. Accompanying service-specific modules will be published to facilitate this adaptation.

### ▶ Competencies that are relevant to current and future health practice

The framework aims to guide the development of curricula to train health workers to meet the demands of current and future health practice. A widely recognized benefit of CBE is its flexibility compared to traditional, knowledge-focused curricula. This flexibility is twofold: first, in relation to the modular organization of competency-based curricula, enabling progressive sequencing of content and acquisition of more complex or more autonomous outcomes; and second, in the emphasis on the development of the individual learner's competencies, such that these behaviours are long lasting. It is the competencies that enable learners to acquire skills and new knowledge and to engage in lifelong learning, thus helping to build a flexible and responsive workforce.

Emerging trends in health services that will influence future health practice include health system redesign, the roles of technologies and changing burdens of disease (10, 27–30). These projections have informed the development of the Global Competency and Outcomes Framework for UHC and the identification of the competencies for health workers working within people-centred, integrated, team-based health care. Periodic review of both the Global Competency and Outcomes Framework for UHC, and of contextualized competency-based curricula developed in relation to it, is recommended to ensure continued relevance.

### ▶ A focus on the core functions of health services as they contribute to attainment of UHC, rather than a focus on who should provide them

The Global Competency and Outcomes Framework for UHC is focused on the provision of health services rather than on who should provide them. The diversity of roles and skills associated with occupational titles across countries and jurisdictions, and overlapping scopes of practice with different qualifications, make them a less helpful starting point. A focus on the core functions of health services, rather than the different occupational groups, has wide applicability across settings and occupational definitions. Occupational profiles are provided to illustrate how the framework might be specified for a given role or setting; these are not prescriptive but provide a starting point for contextualization.

In many contexts, the use of the term "professional" denotes a regulated scope of practice, which is not the case for all health workers with a pre-service training pathway of 12–48 months. As such the term "professional" is not used within the framework, which instead refers to occupational groups and collaborative practice.

#### ► A focus on UHC through primary health care

Primary health care is the cornerstone of UHC (31). The Astana Declaration on Primary Health Care recognized that strengthening primary health care is the most inclusive, effective and efficient approach to enhancing people's physical, mental and social health and well-being (32). Primary health care is a necessary foundation of UHC through its focus on the determinants of health and well-being, empowered people and communities, and integrated health services based on primary care and public health services. The Global Competency and Outcomes Framework for UHC is deliberately designed with a primary health care lens, therefore providing a powerful approach through which to align CBE strategies with the national context, health systems and population needs.

Ensuring that primary health care provision contributes fully to UHC requires effective and coordinated multidisciplinary teams with a range of competencies and scopes of practice to address the health needs of the population, within a health system of referral to other care settings. The composition of primary health care teams depends on each country's own context, resource availability and investment capacity, and may include family doctors, doctors of any other discipline working at the primary care level, nurses, midwives, pharmacists, dentists, rehabilitation workers, community health workers, nutritionists, social carers, social workers, administrative and support staff, and traditional healers (28).

### ▶ Illustration of the curricular development approach for health workers with a pre-service training pathway of 12–48 months

The approach to development of competency-based curricula is potentially relevant to all health worker groups, and in-service and pre-service training programmes of all durations. The development of competency-based curricula is illustrated for health workers with a pre-service training pathway of 12–48 months, practising within a system of supervision, support and referral.

The focus of the framework for health workers in primary health care with pre-service training pathways of 12–48 months was chosen as these programmes are broadly cohesive. There is significant variation in programmes with less than 12 months of training, and shorter programmes may not be of sufficient time to fully develop the desired competencies. Further, there is already a significant amount of standardization and regulation in the content of training programmes longer than 48 months, and these programmes vary considerably in the breadth and length of their training; the inclusion in this document of occupational groups with a pre-service education pathway longer than 48 months would have resulted in an excessively heterogeneous scope of application, and was therefore excluded.

Defining the scope of this competency framework in relation to the target group of general service health workers with 12–48 months education, conversely, allows for a comprehensive and more cohesive approach to identifying the competencies that enable effective performance. Examples of the occupational groups (International Standard Classification of Occupations 2008 (ISCO-08)) therefore included in the scope of this framework are nursing professionals (ISCO-08 group 2221), some community health workers (ISCO-08 group 3253) with pre-service education longer than 12 months, nursing associate professionals (ISCO-08 group 3221), and paramedical practitioners (ISCO-08 group 2240) (33).

### 1.4 Methodology

The development of the Global Competency and Outcomes Framework for UHC was informed by a participatory approach to development, validation and consensus building. The conceptualization of the framework and the organization of the content represent a consensus rooted in the evidence and information about the core functions of health practice provided by health workers in primary health care with 12–48 months pre-service education; the patterns of behaviours demonstrated most often by high-performing health workers; up-to-date educational theory and approaches to implementing CBE; and the expected future requirements for health workers. Whilst the steps described in Figure 1.5 suggest a linear development of the framework, the process has involved iterative consultation and validation of the conceptual approach, the competencies and outcomes, and the approach to contextualization.

Fig. 1.5 Iterative development of the Global Competency and Outcomes Framework for UHC



### **►** Information gathering

Information was gathered from a wide range of sources to inform the conceptualization and content of the framework. This included information about the range of health services and health priorities; the perspectives of people involved in receiving and providing health services; the behaviours or actions a health worker can perform to ensure quality in health care; and the parameters for quality in health care that are outside the control of the health workforce.

- Roles and responsibilities of health workers, service pathways, and health services as contributors to UHC in different contexts. Information was gathered from existing documentation, including Disease control priorities, third edition (34); International Classification of Diseases, 11th revision (35); International Classification of Primary Care, revised second edition (36); International Classification of Health Interventions (37); International Standard Classification of Occupations (ISCO-08) (33); occupational role profiles (38, 39); early drafts of a WHO compendium of interventions for UHC (forthcoming); tracer indicators for measuring the coverage of essential health services for UHC (40); and modelling for resource needs in low- and middle-income countries (41).
- **Foundations for UHC.** WHO priorities for UHC, as articulated through global strategy documents and global priorities, were evaluated to identify the contributions of individual health workers, the health workforce as a whole and education programmes to contribute to progress towards UHC through primary health care. These included documentation in the following areas:
  - primary health care (29, 31, 32)
  - emergency preparedness and global health security (7, 42)
  - antimicrobial resistance (43)
  - integrated people-centred health services (6, 44)
  - population health (7)
  - determinants of health (45)
  - health promotion and prevention (46)
  - interprofessional education and collaborative practice (46)
  - patient safety and quality of care (5, 47, 48)
  - social accountability (27, 49)
  - human rights approach to health (50, 51)
  - digital and other technologies (52)
  - lifelong learning (53).
- Existing competency frameworks and competency-based curricula. More than 200 competence, competency and capability frameworks for health workers, and a further 100 other outcomes frameworks including competency-based curricula and standards, were reviewed for definitions, approach, scope and content. A broad search strategy was enlisted to identify relevant frameworks across different occupational groups and in different country contexts. Particular attention was given

to the CanMEDS (54) and Accreditation Council for Graduate Medical Education (55) models, which have been adapted into 23 and nine other frameworks referenced in this work, respectively; the Association of American Medical Colleges proposal for global competency domains (56); the three global, occupation-specific frameworks developed by the International Pharmaceutical Federation (57), the International Council of Nurses (58) and the International Confederation of Midwives (59); and 31 frameworks published by WHO.

• Literature on the merits, limitations and applications of competency frameworks and CBE. A review of academic literature, emerging concepts in CBE and studies on the merits and limitations of CBE for health worker education was conducted, benefiting particularly from efforts of the Organisation for Economic Co-operation and Development (12), Association of American Medical Colleges (60) and International Competency-Based Medical Education collaborators (56) to harmonize competencies and terminology. Particular attention was paid to entrustable professional activities (61, 62).

### **►** Working group of educationalists

A working group of nine educationalists was convened from clinical education backgrounds in dentistry, nursing, medicine, midwifery and pharmacy, and from countries at different levels of socioeconomic development. The group met in person in December 2018 to advise on the conceptual approach and draft content, and continued to offer advice on iterative drafts.

### Iterative consultation and development

The Global Health Workforce Network Education Hub was established as a virtual community of practice for networks, agencies, academic institutions and individual experts in health worker education across regions and occupational groups. Membership was self-selected and encouraged via social media as well as through meetings, networks and the WHO website. Members of the Global Health Workforce Network Education Hub have provided feedback on three full drafts, and shared examples and references to inform the iterative development of the framework via group conference calls and discussion forums. At the time of the final consultation, there were more than 500 members from 83 countries.

There has been further targeted consultation with WHO regional offices, WHO technical departments, WHO collaborating centres, individual experts, stakeholder groups and professional associations, encouraging all individuals and stakeholder groups to engage subsequently through the Global Health Workforce Network discussion forums for transparency and to reach consensus.

### 1.5 Conceptual framework

### ► Clarity on the terms, definitions and conceptualizations in CBE

Competency and competence have become amongst the most commonly used terms in health worker education, yet they are considered distinct by some and interchangeable by others. The review of existing frameworks that informed this work identified 200 different terms – for example, subcompetency, metacompetency, element and indicator – sometimes meaning the same thing, sometimes meaning different things, and with often different levels of detail and constructs. Further, the development of this framework identified 120 different definitions of competency and 48 definitions of competence. The similarity of terms, compounded by the nuances sometimes lost in translation between languages, have contributed to the confusion of terminology and hindered the application of CBE. Evaluations and commentaries about CBE have identified this as a limiting factor to maximizing the potential of CBE: this is not simply a matter of semantics, as it drives the articulation of outcomes and hence the learning experiences to achieve those outcomes and the assessment of competence.

The definitions of competency and competence have in common the integration of knowledge, skills and other attributes (such as attitudes, beliefs, judgement, strengths or values), usually in relation to performance of tasks. There are, however, three distinct and related conceptualizations.

- Competencies are behavioural they are a person's ability to integrate knowledge, skills and attitudes.
- Practice activities are functional they are groups of tasks that require the application of knowledge, skills and attitudes.
- Competence is a holistic measure of performance of the practice activity to the standard defined in terms
  of behaviours hence, competence is the integration and application of knowledge, skills, attitudes
  and competencies.

Table 1.2 summarizes the key characteristics of the two types of outcomes defined in the Global Competency and Outcomes Framework for UHC: competencies (and the behaviours that demonstrate them) and practice activities (encompassing tasks).

Table 1.2 Characteristics of competencies, behaviours, practice activities and tasks

	Competency	Behaviour	Practice activity	Task
Definition	The ability of a person to integrate knowledge, skills and attitudes in their performance of tasks in a given context. Competencies are durable, trainable and, through the expression of behaviours, measurable.	Observable conduct towards other people or tasks that expresses a competency. Behaviours are measurable in the performance of tasks.	A core function of health practice comprising a group of related tasks. Practice activities are time limited, trainable and, through the performance of tasks, measurable. Individuals may be certified to perform practice activities.	Observable unit of work within a practice activity that draws on knowledge, skills and attitudes. Tasks are time limited, trainable and measurable.
Continuous, ongoing abilities     May develop or erode with time     Enables performance of multiple practice activities     A person can possess a competency, which is demonstrated in the context of performance     Requires the integration of knowledge, skills and attitudes     The behaviour demonstrating the competency defines the standard for performance      A person can possess a     Competencies can be		<ul> <li>Time-limited, discrete actions, observable from start to finish</li> <li>Requires the application of knowledge, skills and attitudes</li> <li>A person can perform a practice activity or task, but they cannot possess it</li> <li>The unit of assessment, certification or regulation</li> </ul>		
Charac	<ul> <li>A person can possess a competency</li> <li>A competency is multifaceted</li> <li>Behaviours are the measurable expression of a competency</li> </ul>	<ul> <li>Competencies can be demonstrated through several different behaviours</li> <li>Performance is measurable as a judgement on a scale of frequency (never, sometimes, always)</li> </ul>	Describes the common goal of a group of tasks	<ul> <li>A smaller, measurable unit within a practice activity</li> <li>Does not achieve a goal in itselis abstract unless considered in the context of the wider practic activity</li> <li>Performance is measurable on dichotomous scale (yes or no)</li> </ul>

This approach is rooted in the educational approaches defined by Bloom's (1956) taxonomy of educational outcomes (63); Anderson and Krathwohl's (2001) revision of those outcomes (64); and the social sciences discourse on activity theory,<sup>2</sup> which considers performance of tasks as part of a joint activity or practice. Further, the terms and conceptualization build upon recent efforts among educationalists to clarify and conceptualize competencies in relation to (and thus distinct from) the performance of work (23, 54, 61, 65), and in particular upon the work of the International Competency-Based Medical Education collaborators (60, 66).

<sup>&</sup>lt;sup>2</sup> Activity theory is rooted in the understanding of people as sociocultural persons (not processors or systems components), such that in order to achieve an outcome in the provision of health care, the person needs to mediate the sequence of tasks towards a goal within the rules and tools available for the context.

The dual focus on both the behavioural and functional components of competence and their relationship aims to harness the promise of CBE, and offer clarity on the implementation of competency frameworks and competency-based curricula.

### Competencies are a person's abilities to integrate knowledge, skills and attitudes, demonstrated through behaviours

Competencies are the abilities of a person to integrate knowledge, skills and attitudes in their performance of tasks in a given context. Competencies are durable, trainable and, through the expression of behaviours, measurable. They represent ongoing habits that are not task specific but rather enable the performance of different roles and responsibilities in varying situations. Competencies are interrelated and often demonstrated simultaneously, for example communication, decision-making and collaboration in the context of developing a treatment management plan.

A person's competencies can be observed through the demonstration of the specified behaviours in the context of the tasks performed. The expression of behaviour is within the power or control of the health worker; a health worker controls their actions or response to a situation, but they cannot control the outcome. The competencies that are relevant for effective health practice are not, in themselves, unique to the sector. However, the behaviours that demonstrate the requisite competencies for UHC are described in the context of the provision of health services.

### ▶ Practice activities are the core functions of health practice, encompassing groups of related tasks

The execution of these related tasks to the requisite standard for UHC requires the integration and application of knowledge, skills, attitudes and behaviours. For use as a guide to curricular development, the practice activities require specification according to the role, responsibility and context. With these specifications, practice activities are the units of assessment, certification and, in some cases, regulation.

Practice activities describe the core functions of health services as they strive to attain UHC, such as managing a treatment plan, documenting notes in a patient record or ordering supplies. In total, practice activities describe the core functions of health practice for the health team, each comprising multiple component and sequential tasks. Individual practice activities may be provided by an individual or by a team, depending on the distribution of roles and responsibilities.

The practice activities are described in general terms and are applicable across health services and in different settings. They require specification according to the role and responsibility of the person who will provide those health services, and the context in which they will provide them. Practice activities may differ in size; they reflect the functions of health practice, not the space in the curriculum.

The provision of health services is not, in reality, ordered into units of work that are described by the practice activities. In a single interaction, the same health worker may gather information, make a clinical judgement, perform a test, provide initial results, communicate difficult news and arrange for a referral. For utility in education and the measurement of outcomes, the execution of practice activities can be observed and measured through the performance of tasks, integrating competencies as standards for performance.

Competence is a state of proficiency, encompassing competencies. Competence is the state of proficiency of a person to perform the required tasks within a practice activity to a defined standard, which equates to having the requisite competencies to do this. Competence is multidimensional and dynamic, relating to the ability to perform a practice activity to the standard for the context. As the context changes – the presentation of symptoms, the team, the availability of resources - the individual draws on their competencies to make decisions, collaborate, and communicate effectively for that context.

Whilst competencies in isolation might be considered abstract and tasks in isolation considered reductionist, it is the combined focus on the individual's abilities in relation to their performance of tasks that offers a richness in the interpretation of competence that underpins the provision of quality health services.

Competencies take their meaning in the context of practice activities; behaviours are the performance standards of practice activities. The outcomes of pre-service education programmes should reflect what the learner will do in practice (practice activities encompassing the performance of tasks) and the standards to which these are performed (competencies demonstrated through behaviours). When designing a curriculum, it is common and advisable to break complex competencies into sets of knowledge and skills, ensuring mastery of each before progressing to the application and assessment of competence in context.

The focus of CBE is mastery of the learning outcomes of the programmes, defined in terms of the application of knowledge, skills, attitudes and behaviours to practice. Figure 1.6 illustrates how knowledge, skills and attitudes underpin both competencies (and behaviours) and practice activities (encompassing tasks).

Knowledge, skills and attitudes are developed interdependently. It cannot be assumed that learners will intuitively respond to different situations; effective behaviours are an integral part of effective performance of tasks, and the different contexts, and expected performance in those contexts, warrants explicit focus in

Fig. 1.6 Relationship between competencies and practice activities, and their underpinning of knowledge, skills and attitudes



curricula. The principles of CBE consider that effective behaviours are not learned in isolation, but in the context of the tasks and situations for real-world practice.

#### ▶ Supportive supervision is one key to the success of the implementation of the framework

Supervision can be provided by and between different occupational groups, or by health workers within the same occupational group. Effective supervision requires that those engaging in supervision have achieved competence in the practice activity to be supervised as well as the practice activity of supervision. Expertise in a subject does not equate to competence in supervision.

Ideally, health service provision would be by health teams composed of a mix of juniors (novices who need continued education and supervision), experienced health workers (who are encouraged to examine and reflect on their practice through supervision) and supervisors (expert health workers who can offer practical advice and know-how).

Responsibilities for the provision of health services build gradually and start in a formal training programme under due supervision, and even after completion of pre-service education programmes workplace-based supervision may remain required for some time. There will be times in practice where a health worker reaches a proficiency threshold and needs to seek advice from, or hand over to, a supervisor or more specialized health workers in the team with the training and competence to perform a task. Learners have a responsibility to identify and acknowledge when they do not know what to do or they need support. It is important that the standards for competence reflect the context in which a learner is expected to practise, including the level of supervision necessary.

# 2. Competencies for universal health coverage (UHC)

Quality of health care services is critical for achieving UHC; however, quality does not come automatically. This chapter focuses on the requisite competencies of health workers that enable them to provide health services that are effective, equitable, efficient, integrated, people centred, safe and timely, thus contributing to progress towards UHC within the overall health system.

Competencies are a person's abilities to integrate knowledge, skills and attitudes, demonstrated through behaviours, in the performance of tasks in a given context. When developing competency-based curricula, this means that the behaviours outlined in this chapter are learned and assessed in the context of the tasks within role and responsibility. This requires a deliberate inclusion of the requisite behaviours for UHC within the performance standards for the practice activities, encompassing tasks.

This framework proposes 24 competencies, organized into the six domains depicted in Figure 2.1, that health workers should integrate into their practice to contribute towards the provision of quality health services. Many competencies are individually applicable beyond the health sector: this framework identifies the range of behaviours that embody these competencies in the provision of quality health services that contribute to attainment of UHC.



Fig. 2.1 Competency domains within the Global Competency and Outcomes Framework for UHC

Competencies are interrelated and overlapping. For example, communication is fundamental to collaboration; and decision-making cannot take place without interpreting and applying evidence and information. Competencies are not specific to an individual task or practice activity. As such, a given situation might require the integration of multiple competencies, and every competency has the potential to underpin the performance of any practice activities within an individual's role and responsibility.

### 2.1 Using competencies to define competency-based standards

Competence is the performance of tasks within practice activities to the required standard. It is thus essential that those standards reflect the application and integration of competencies at the required level. The behaviours defined in this chapter are written at a general level, such that they are relevant for health workers with a pre-service training pathway of 12–48 months, regardless of setting, role or responsibility. The behaviours may, in addition, have applicability also for other health occupational groups.

The extent to which health workers draw upon the requisite competencies varies according to the tasks of health practice (practice activities) and the context. For example, all health workers need to be able to make decisions effectively at different levels, from deciding to administer a vaccination guided by a decision-making aid, to making ethically challenging decisions related to patient care, to making leadership decisions on the allocation of resources. In these situations, the decision-making process may be the same, but the context and level of responsibility mean that the competency-based standards are very different. The behaviours defined in this framework highlight the different components of a competency expected for quality in UHC services, but require additional specification to be used as a measure of performance (adapt and adopt). To be used as a standard for performance of tasks, the behaviours outlined in this chapter need to be supplemented by details relevant to the practice activity, namely the tools, techniques, situations likely to be encountered, settings (for example, facility, community, conflict zone), people likely to interact with, level of responsibility and level of supervision.

A competent health worker consistently integrates the required competencies into their practice at the defined standard. As health workers increase their proficiency (level of performance), behaviours become more intuitive and less deliberate. Proficiency can continue to increase in practice following completion of any pre-service education programme, with time, experience or lifelong learning. The standards may differ depending on the stage of training or responsibility in practice. Relating the learner's acquisition of competencies to the Dreyfus and Dreyfus (1986) model of skills acquisition (67), which describes the hypothetical stages of competency development, descriptors can be used to illustrate competency development in the context of practice activities (Figure 2.2).

**NOVICE ADVANCED** COMPETENT **PROFICIENT EXPERT** Demonstration With prompting Sometimes Consistently Consistently Consistently of behaviours Tools and With prompting Limited Range Range Range techniques Routine With prompting Deliberate Deliberate Intuitive Intuitive situations Adaptive: Complex, Intuitive With prompting With prompting Deliberate Deliberate unexpected situations

Fig. 2.2 Demonstration of behaviours aligned with the Dreyfus and Dreyfus (1986) model of skills acquisition

These competencies can be used to define curricular content in addition to the knowledge and skills linked to practice activities (see Chapter 3). Attitudes and behaviours can be acquired through training approaches that warrant explicit focus in curricular development and assessment of competence (Table 2.1) (68–70).

Table 2.1 Guiding questions to developing competency-based curricular content for competencies

Curricular content	Guiding questions
Knowledge	<ul> <li>The concepts and theories pertaining to each behaviour</li> <li>The impact of each behaviour on health practice, health-seeking behaviours and health outcomes</li> <li>Examples of positive and negative behaviours in the context of practice activities</li> </ul>
Skills	• Use of the tools and techniques to integrate behaviours into practice, appropriate for role and responsibility
Attitudes	<ul> <li>The importance of each behaviour</li> <li>The motivation to perform each behaviour</li> </ul>

Note that Chapter 3 provides the framework to identify and define the practice activities within role and responsibility, and the knowledge and skills linked to the performance of tasks. Chapter 4 provides an overview of the process for contextualizing both the competencies and the practice activities to inform curricular outcomes, and the principles and considerations for implementing CBE, including the assessment of competencies.

### 2.2 Competencies for universal health coverage: overview

The Global Competency Framework for UHC identifies 24 competencies organized into six domains. Although presented as a list, the competencies are interrelated and interdependent.

### Domain I: People-centredness

Competencies related to the provision of health services that incorporate perspectives of individuals, caregivers, families and communities as participants in and beneficiaries of health systems

- 1. Places people at the centre of all practice
- 2. Promotes individual and community agency
- 3. Provides culturally sensitive, respectful and compassionate care
- 4. Incorporates a holistic approach to health

### Domain II: Decision-making

Competencies related to the approach to decision-making

- 5. Takes an adaptive, collaborative and rigorous approach to decision-making
- 6. Incorporates a systems approach to decision-making
- 7. Takes a solutions-oriented approach to problem solving
- 8. Adapts to unexpected or changing situations

#### Domain III: Communication

Competencies related to effective communication

- 9. Proactively manages interactions with others
- 10. Adapts communication to the goals, needs, urgency and sensitivity of the interaction
- 11. Listens actively and attentively
- 12. Conveys information purposefully
- 13. Manages information sharing and documentation

#### Domain IV: Collaboration

Competencies related to the practice philosophy of teamwork

- 14. Engages in collaborative practice
- 15. Builds and maintains trusting partnerships
- 16. Learns from, with and about others
- 17. Constructively manages tensions and conflicts

### Domain V: Evidence-informed practice

Competencies related to the generation of evidence and information and their integration into practice

- 18. Applies the principles of evidence-informed practice
- 19. Assesses data and information from a range of sources
- 20. Contributes to a culture of safety and continuous quality improvement

### Domain VI: Personal conduct

Competencies related to self-governed behaviours

- 21. Works within the limits of competence and scope of practice
- 22. Demonstrates high standards of ethical conduct
- 23. Engages in lifelong learning and reflective practice
- 24. Manages own health and well-being

# 2.3 Competencies and behaviours for UHC

#### Domain I: People-centredness

All health workers have a role in the provision of health services that put people and communities, not diseases, at the centre of health systems and empower people to take charge of their own health rather than being passive recipients of health (44). This requires health workers to consciously adopt an approach to their health practice that incorporates the perspectives of individuals, families and communities as participants in and beneficiaries of trusted health systems. Whilst many of the enabling factors for the provision of integrated people-centred health services are system based, the competencies in this domain, and the behaviours through which these competencies can be demonstrated in practice, reflect the capacity of all health workers to provide integrated people-centred health services. These competencies are relevant to interactions with all people encountered through health services.

#### Competency 1: Places people at the centre of all practice

**3ehaviours** 

- 1.1 Provides the best possible health care that supports an approach to health services that is effective, equitable, efficient, inclusive, integrated, people centred, safe and timely
- 1.2 Adapts practice to the individual, family and community, including their physical, cognitive, cultural, emotional, linguistic, health literacy and sensory needs and other influences on their engagement with health services

#### Competency 2: Promotes individual and community agency

**Behaviours** 

2.1 Supports people to develop their health literacy

- 2.2 Demonstrates respect for the autonomy, goals, perspectives, preferences, priorities and rights of individuals, caregivers, families and communities
- 2.3 Supports people to develop strategies or access tools to manage their own health and well-being

#### Competency 3: Provides culturally sensitive, respectful and compassionate care

- 3.1 Demonstrates compassion, empathy and respect for all people<sup>3</sup>
- 3.2 Adopts an approach to practice that is non-blaming, non-discriminatory, non-judgemental and non-stigmatizing

**Behaviours** 

- 3.3 Maintains self-awareness around own beliefs, biases, emotional responses and values
- 3.4 Demonstrates cultural sensitivity
- 3.5 Embraces individual differences and cultural diversity
- 3.6 Challenges the causes and consequences of discrimination, exclusion, prejudice, stigma and other barriers to accessing and utilizing health services

#### Competency 4: Incorporates a holistic approach to health

- 4.1 Supports people to challenge or address their economic, environmental, political and social determinants of health
- 4.2 Supports people to manage their health within health system constraints and their determinants of health

**Sehaviours** 

- 4.3 Incorporates health promotion and disability, disease and injury prevention into interactions
- 4.4 Supports individuals, caregivers, families and communities to adopt healthy behaviours
- 4.5 Contributes to protecting vulnerable populations

<sup>&</sup>lt;sup>3</sup> "All people" signifies irrespective of age, asylum or migration status, criminal record, culture, disability, economic status, ethnicity, gender identity and expression, health literacy, health status, language, nationality, race, religion, sex, sexual orientation, treatment adherence, vulnerability to ill-health or other characteristic.

#### Domain II: Decision-making

All actions taken by a health worker in the course of their practice involve decisions with consequences for the health of others, the use of resources, or others' experiences of health services. Clinical decision-making involves interpreting evidence for a context using judgement on relevance, timeliness, resource implications and others' needs and preferences, sometimes with incomplete information. The complexity of the decisions to be made, the implications of those decisions, and the level of judgement vary according to role and responsibility. However, to provide quality health services, all health workers require competencies to make effective and timely decisions in a range of circumstances, the ability to use decision-making tools and aids, and awareness of the decisions they can make alone or in consultation with others.

#### Competency 5: Takes an adaptive, collaborative and rigorous approach to decision-making

- 5.1 Promotes collaborative decision-making
- **Behaviours**
- 5.2 Seeks information and evidence from a range of sources when approaching decision-making
- 5.3 Approaches decisions analytically and methodically
- 5.4 Adapts the approach to decision-making that reflects the complexity, urgency and consequences of decisions
- 5.5 Demonstrates critical thinking to reach decisions that are well reasoned, ethical, evidence informed, feasible, timely and based on the best available information

#### Competency 6: Incorporates a systems approach to decision-making

**Behaviours** 

- 5.1 Uses physical, human and financial resources efficiently
- 6.2 Avoids the overuse or misuse of resources
- 6.3 Organizes own time and workload effectively
- 6.4 Takes responsibility for own decisions and their consequences

#### Competency 7: Takes a solutions-oriented approach to problem-solving

**3ehaviours** 

- 7.1 Takes initiative to mitigate anticipated problems
- 7.2 Focuses on solutions, end goals and results
- 7.3 Creates pragmatic solutions to identified problems

#### Competency 8: Adapts to unexpected or changing situations

**Sehaviours** 

- 8.1 Demonstrates flexibility and patience
- 8.2 Adjusts priorities to respond to changing situations and demands
- 8.3 Demonstrates a calm demeanour under pressure

#### Domain III: Communication

Communication is fundamental to how health workers guide, inform, support and collaborate with the individuals, caregivers, families and communities for whom they provide health services, as well as with other members of the health team. Effective communication is a process that requires health workers to manage their own verbal and non-verbal communication, respond to the verbal and non-verbal communications of others and complete documentation. Not all communication takes place face to face or in writing, and different situations may require health workers to communicate using augmentative and alternative communication tools and methods, telephones, interpreters and digital technologies.

#### Competency 9: Proactively manages interactions with others

- 9.1 Clarifies the communication goals<sup>4</sup> for an interaction
- **Behaviours**
- 9.2 Identifies when and how to initiate, conduct and close an interaction
- 9.3 Manages communication barriers due to cognitive, physical or sensory impairment, culture, developmental stage, geography or language
- 9.4 Supports others to communicate for themselves
- 9.5 Manages the physical environment for interactions considering the impact of comfort, privacy, noise, space and temperature

#### Competency 10: Adapts communication to the goals, needs, urgency and sensitivity of the interaction

- 10.1 Adapts the style, language and method of communication to the interaction
- 10.2 Maintains an approach to communication that is characterized by calmness, compassion, empathy, respect, sensitivity and tact
- 10.3 Seeks to mitigate the impact of own beliefs, biases, emotional responses, opinions and values on verbal and non-verbal communication
- 10.4 Uses relevant abbreviations, language and terminology, translating complex and clinical content into lay terms as necessary
- 10.5 Uses a range of verbal, non-verbal, visual, written and digital communication tools and techniques

#### **Competency 11: Listens actively and attentively**

**Behaviours** 

Behaviours

- 11.1 Uses a range of non-verbal cues and verbal affirmations
- 11.2 Supports others to ask questions and openly express experiences, feelings, ideas and opinions
- 11.3 Responds sensitively to what others express

#### Competency 12: Conveys information purposefully

- 12.1 Provides relevant, accurate and complete information
- **Sehaviours**

**Behaviours** 

- 12.2 Presents information clearly, coherently, concisely and organized logically
- 12.3 Differentiates between information as facts, context-specific evidence, opinion and misinformation
- 12.4 Expresses own opinions and perspectives with clarity, confidence and respect
- 12.5 Adopts strategies that encourage a common understanding of information and decisions

#### Competency 13: Manages information sharing and documentation

- 13.1 Uses a range of health-related information management tools, including individual health records
- 13.2 Keeps people informed about health risks and relevant aspects of their health care
- 13.3 Shares information with relevant others in a timely manner
- 13.4 Complies with ethical and legal requirements for obtaining, recording, sharing, retaining and destroying information acquired in an occupational capacity

<sup>4</sup> Communication goals describe the desired outcomes of the interaction, for example, conveying or receiving information, persuading, building trust or providing support, and the urgency.

#### Domain IV: Collaboration

The philosophy of team work underpins health practice (5), involving collaboration with other health workers, intersectoral collaboration, and collaboration with individuals, caregivers, families and populations as informed members of the health team. Some health workers will have responsibilities to lead teams and may take a more formal role to facilitate teams, as explored through the practice activities; but all health workers are part of multiple formal and informal teams in the course of their practice.

#### **Competency 14: Engages in collaborative practice**

14.1 Engages with others across cultural, geographical, organizational and sectoral boundaries, and with individuals, caregivers, families and communities, as partners

**Behaviours** 

14.2 Jointly negotiates roles and responsibilities to maximize strengths within a team

- 14.3 Fulfils agreed ways of working within the health team
- 14.4 Enables others to make their contribution to a team
- 14.5 Celebrates shared outcomes, goals and values

#### **Competency 15: Builds and maintains trusting partnerships**

**Behaviours** 

**3ehaviours** 

**Behaviours** 

15.1 Maintains constructive and collaborative working relationships with others, whether or not a formal team exists

15.2 Strives to develop a positive rapport with others characterized by respect, support and trust

15.3 Maintains ethical boundaries with other members of the health team

15.4 Minimizes the impact of hierarchical differences on health outcomes

#### Competency 16: Learns from, with and about others<sup>5</sup>

16.1 Demonstrates willingness to learn from others' experiences of the health system, health conditions and lived environment

16.2 Seeks constructive, sensitive and timely feedback, support and advice

16.3 Provides constructive, sensitive and timely feedback, support and advice

16.4 Learns from interactions with others and feedback processes

16.5 Engages in opportunities to improve collaboration within and between teams

#### Competency 17: Constructively manages tensions and conflicts

17.1 Anticipates, identifies, acts upon and learns from tensions or potential areas of conflict

17.2 Focuses on the sources of tensions rather than arising conflicts

17.3 Supports a blame-free environment in which one is safe to question and seek support and guidance

17.4 Considers different perspectives when seeking compromise, consensus or a decision

17.5 Uses diplomacy to mediate, negotiate or persuade

17.6 Takes positive action to avoid and dispel abuse, harassment or other disruptive behaviours

<sup>&</sup>lt;sup>5</sup> Others includes individuals, families, caregivers, communities and other health workers.

#### Domain V: Evidence-informed practice

Evidence-informed practice enables individuals and communities to receive the best possible care regardless of where they live, improves quality and safety, and contributes to better health outcomes (71). Health workers routinely acquire and interpret high volumes of data, information and evidence from individuals, caregivers, families, communities and other health workers, as well as from experts, journals, guidelines, government, websites and media. This information varies in relevance, detail and accuracy. In the health context, evidence is usually high-quality information gained from research, and is therefore more predictable and reliable. Whilst all evidence is information, not all information is evidence. To provide the best possible health care, service provision must be evidence informed. The ways through which an individual health worker implements evidence-informed practice depends on their role and responsibility: from strictly following evidence-based protocols and guidelines, to integrating evidence with experience and individuals' values according to the circumstances. This domain focuses on the competencies related to the application of the best available evidence from scientific or published research studies to practice; the appraisal and integration of data and information; and the role of the health worker in generating and using information and adapting it to guide quality of care, safety and improvement efforts in the local context.

#### Competency 18: Applies the principles of evidence-informed practice

**Behaviours** 

18.1 Maintains awareness of evidence-informed practice

- 18.2 Integrates current best available evidence into practice
- 18.3 Promotes evidence-informed practice amongst colleagues
- 18.4 Participates in the generation and application of evidence

#### Competency 19: Assesses data and information from a range of sources

**Behaviours** 

19.1 Identifies the need for additional data and information

19.2 Promotes access to data, information and evidence

- 19.3 Seeks data, information and evidence from a range of sources
- 19.4 Critically appraises the limitations, quality, relevance and significance of data, information and evidence
- 19.5 Manages the risks of harm from misinformation

#### Competency 20: Contributes to a culture of safety and continuous quality improvement

Behaviours

- 20.1 Adheres to safety protocols that avoid adverse events, health care errors, and incidents of harm and unsafe practice
- 20.2 Learns from what works and what has not gone well
- 20.3 Offers suggestions for improvement to address identified problems
- 20.4 Participates in quality measurement and continuous quality improvement processes

#### Domain VI: Personal conduct

The way that health workers conduct themselves in the course of their practice has implications for safety and quality in health care and fostering trust. The competencies in this domain describe the ethical principles that guide a health worker in their day-to-day practice and in a range of situations, and their rights and responsibilities in managing their own health, engaging in lifelong learning and working within a regulated scope of practice. Health workers can take a proactive role in identifying and resolving challenges when issues do arise, ultimately to ensure their own health, well-being and competence, which in turn serves to benefit the individuals and community they serve.

#### Competency 21: Works within the limits of competence and scope of practice

Behaviours

21.1 Maintains awareness of own competence and scope of practice

- 21.2 Adheres to the duties, obligations and codes of conduct defined by occupational standards, legal regulations and organizational procedures
- 21.3 Seeks guidance when encountering situations beyond competence or scope of practice

#### Competency 22: Demonstrates high standards of ethical conduct

22.2

22.1 Acts with honesty, integrity and transparency

- 22.2 Upholds legal and ethical principles, including capacity, confidentiality, consent, conflict of interest, duty of care, dignity, privacy and safeguarding
- 22.3 Consults with others in situations with ethical implications
- 22.4 Refuses individual gifts or other forms of influence intended to coerce or invite personal favour

#### Competency 23: Engages in lifelong learning and reflective practice

**Behaviours** 

**3ehaviours** 

- 23.1 Seeks and engages in continuous formal and informal learning linked to current and emerging practice responsibilities
- 23.2 Engages in self-learning and reflective practice
- 23.3 Seeks to address any negative impact of own attitudes, behaviours and gaps in competence or practice

#### Competency 24: Manages own health and well-being

Sehaviours

- 24.1 Monitors own mental, physical and social health and well-being
- 24.2 Uses a range of strategies to manage fatigue, ill-health, stress and the impact of exposure to distressing and emergency situations
- 24.3 Seeks help or support where needed for own health and well-being
- 24.4 Engages in self-care practices that promote emotional resilience, health and well-being

# 3. Practice activities: an organizing framework for integrating competencies into outcomes-based curricula

This practice activities section provides an organizing framework with two broad applications: (a) for describing roles and responsibilities within a team using a common language; and (b) for the (re)design of competency-based curricula to enable the performance of those defined responsibilities. Each practice activity describes a core function of health practice comprising groups of related tasks. Practice activities are time limited, trainable and, through the performance of tasks, measurable. Individuals may be certified to perform practice activities, with specified limitations.

This framework has been created for the purpose of being applicable to health workers with a pre-service training pathway of 12–48 months, with selection and specification according to roles and responsibilities. Alternative specifications or additional practice activities could be used to adapt to wider responsibilities in the provision of health services outside the responsibilities of these groups of health workers, for example curricular development, facility cleaning or maintenance, governance, laboratory testing services, systems planning and supply chain management.

Typically, a single occupational group would not have responsibilities across all practice activities. Many of the tasks within practice activities can also be performed by other health workers with shorter or longer or more specialized training programmes, and higher-level tasks or extended breadth of responsibilities could

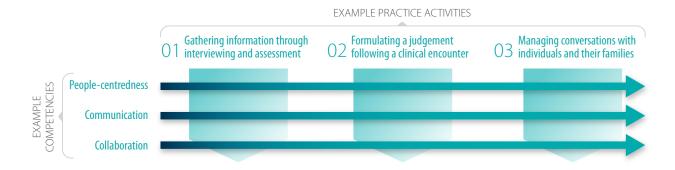
also be part of career development. The range of health services and the level of supervision for the performance of these practice activities must be defined for them to be used to inform the development of outcomes-based curricula.

The practice activities are organized into three domains – individual health, population health, and management and organization (Figure 3.1) – through the lens of primary health care. Whilst each practice activity describes a discrete function of health practice, a single clinical encounter may require any number of practice activities in any sequence, without pause or acknowledgement of their start or end.

Fig. 3.1 Practice activity domains for health service provision



Fig. 3.2 Defining competency-based performance standards for practice activities



Competencies (expressed through behaviours) enable the performance of practice activities (encompassing tasks) of the quality required for effective provision of health services that fully contribute to attainment of UHC. They must therefore be interpreted together, as illustrated in Figure 3.2.

# 3.1 Curricular guides for practice activities

A key characteristic of CBE is that curricular content is linked to outcomes. This means that any learning related to knowledge, skills, attitudes or behaviours is rooted in its relevance for the performance of practice activities to the level of proficiency required. There are four dimensions to the practice activities in this framework to support the development of curricula where the practice activity reflects role and responsibility – title; composite tasks; curricular content guide; and illustrative occupational profiles that link the selection of curricular content to the tasks.

A curricular guide for each practice activity is provided as a reference for the knowledge and skills. These more or less universal guides for the knowledge and skills required for the performance of tasks within practice activities may be supplemented by local knowledge and specified to the breadth of tasks within programme outcomes as part of the contextualization of the framework.

Illustrative profiles are provided to guide the adaptation of the practice activities and curricular guides to a specific context. The four illustrative profiles were developed to reflect varying levels of autonomy in clinical decision-making and varying duration of pre-service education: nursing associate professional, community health worker (CHW), nursing professional and paramedical practitioner, as described in Table 3.1.

Where an area of curricular content is relevant for all four profiles, it may still vary in relation to the role and responsibility in the health system. For example, within "practice activity 14: providing non-pharmacological health interventions", the knowledge of "methods and techniques for the intervention, including safety and quality checks and management of potential complications or adverse events" is ticked for all four occupational profiles. However, the number and range of procedures or therapies varies, and the methods of management will vary from seeking help to performing additional clinical interventions.

Table 3.1 Illustrative health worker profiles for practice activities

Variable	Profile A	Profile B	Profile C	Profile D
Profile	Short pre-service education, limited clinical decision-making autonomy: e.g. nursing associate professional (ISCO-08 3221)	Short pre-service education, limited clinical decision- making autonomy: e.g. community health worker (ISCO-08 3253)	Longer pre-service education, some clinical decision-making autonomy: e.g. nursing professional (ISCO-08 2221)	Longer pre-service education, substantial clinical decision-making autonomy: e.g. paramedical practitioner (ISCO 08-2240) <sup>a</sup>
ISCO main group	Health associate professional	Health associate professional	Health professional	Health professional
Typical duration of training	12–24 months	12–24 months <sup>b</sup>	24–48 months	24–48 months
Brief overview of responsibilities	Predominant role in treatment support and health promotion and prevention  May carry out basic procedures in support of management plan	Narrow scope of practice for treatment and classification of conditions  Predominant role in treatment support, referral, home care and health promotion and prevention	Wide scope of practice across prevention, promotion and care; scope of practice relating to non-medical diagnosis and treatment, usually in the context of a management plan agreed with others May take leadership or management role	Wider scope of practice across prevention, promotion and care; scope of practice includes diagnosis and treatment, usually with specified limitations (provision of routine basic procedures or specific complex or surgical procedures or diagnostics)  May take leadership or management role
Level of supervision	Works with close monitoring a	and supervision	Works autonomously for the r supervision or delegated respo health worker in the team	
Complexity of clinical decision-making	Limited clinical decision- making	Clinical decision-making following standardized protocols and prescriptive options	Decision-making related to implementation of treatment plan	Medical diagnosis; decisions related to management, prioritization or rationalization of resources
Role in clinical decision- making	Mainly protocol based		Adapts protocols to the individ	dual

Some nursing professionals acquire through additional training and licensing additional areas of competence that grant them greater clinical decision-making autonomy. Specialized nursing staff should be considered for the purpose of this document as part of the illustrative category in the profile D grouping.

Chapter 4 provides an overview of the principles and considerations for implementing CBE. When using these guides to develop curricula, the following considerations are necessary.

- What is the specification of the practice activity What are the tasks within role and responsibility? What are the health interventions or presentation of symptoms relevant for this practice activity? What are the tools and techniques to be used? What is the level of supervision?
- What are the knowledge and skills that enable the performance of the practice activity with the above specification? This may or may not include all of the knowledge and skills outlined in the guide, depending on the range of tasks selected. What is the depth of knowledge or comprehension? What is the local or contextual knowledge?
- What is the curricular content that overlaps or is common to multiple practice activities? This can be useful to consider when progressively building learning activities sequentially, rather than repeating similar content multiple times throughout a programme.

b In contexts where CHWs receive less than 12 months' training, the role is narrower and typically limited to the standardized application of public health, diagnostic or case management protocols.

# 3.2 Practice activities for universal health coverage: overview

Practice activities are the core functions of health practice. They comprise groups of related tasks that may be undertaken by one person or groups of people, and represent the integration and application of knowledge, skills and attitudes to practice. Practice activities are time limited, trainable and, through the performance of tasks, measurable.

The Global Competency and Outcomes Framework for UHC identifies 35 practice activities organized into three domains where health workers with a pre-service training pathway of 12–48 months may have responsibilities, depending on the setting and scope of practice. Typically, a single occupational group would not have responsibilities across all practice activities.

#### **Domain I: Individual health**

Practice activities relating to the provision of health services for an individual

- 1. Gathering information through interviewing and assessment
- 2. Formulating a judgement following a clinical encounter
- 3. Managing conversations with individuals and their families
- 4. Advocacy for individual health needs
- 5. Providing information and support to impact individual health behaviours
- 6. Gaining informed consent
- 7. Ordering, administering and interpreting the results of diagnostic and screening procedures
- 8. Developing and adjusting a management plan
- 9. Prescribing medications or therapeutics
- 10. Preparing and dispensing medications or therapeutics
- 11. Administering medications or therapeutics
- 12. Selecting assistive products
- 13. Providing assistive products
- 14. Providing non-pharmacological health interventions
- 15. Providing treatment and care support to individuals
- 16. Managing end-of-life and bereavement care
- 17. Reporting notifiable diseases, conditions or events
- 18. Providing or receiving a clinical presentation
- 19. Moving and transporting individuals
- 20. Coordinating transfer to another care environment

#### **Domain II: Population health**

Practice activities relating to the provision of health services for communities and groups of individuals

- 21. Assessing community health needs
- 22. Planning and delivering community health programmes
- 23. Managing public health communication
- 24. Developing preparedness for health emergencies and disasters, including disease outbreaks
- 25. Responding to health emergencies and disasters, including disease outbreaks
- 26. Advocacy for community health needs

#### **Domain III: Management and organization**

Practice activities relating to the effective use of human, physical and financial resources

- 27. Accessing and documenting information
- 28. Registering individuals for health services
- 29. Delivering quality improvement activities
- 30. Providing workplace-based learning and supervision
- 31. Managing human resources
- 32. Managing financial resources
- 33. Managing physical resources
- 34. Participating in evaluation and research
- 35. Developing, evaluating and implementing local policies, procedures and guidelines

#### **GATHERING INFORMATION THROUGH INTERVIEWING AND ASSESSMENT**

Task	S	<ol> <li>Establishing the purpose of the interaction</li> <li>Gathering and confirming information through interviewing</li> <li>Determining the clinical objectives, nature and timing of a cognitive, emotional, massessment</li> <li>Conducting a cognitive, emotional, mental, physical or social assessment</li> <li>Developing a shared understanding of health needs</li> </ol>	nental, p	hysical ar	nd social	
ational roles	Profile A (e.g. nursing associate professional)  Profile B (e.g. CHW)	<ul> <li>Obtaining a basic history using a predefined protocol or questionnaire</li> <li>Conducting a visual examination and basic physical and mental assessment, usually brief procedures or determining extent of injury</li> </ul>	for the p	ourpose o	f admini:	stering
Illustrative occupational roles	Profile D (e.g. paramedical practitioner)  Obtaining a full and comprehensive history through targeted questioning  Conducting a cognitive, emotional, mental, physical or social assessment using a range for the purpose of evaluating risks, symptoms and priorities  Gathering information in difficult situations such as non-cooperation, reduced consciumpairment				·	5
Curr	icular content		A	В	C	D
1.		ered from the individual through interviewing and assessment in guiding gements concerning the health services to be provided	$\sqrt{}$	√	√	√
2.	The role of the environment i	n ensuring privacy, confidentiality and putting the individual at ease	√	√	√	√
3.		he interaction to the purpose; the urgency (which may emerge through the process and the availability of resources (time and equipment)	V	√	√	√
4.		ed, which may include history of current illness or episode; past family, medical, cological, psychological, sexual, social or surgical history; immunizations; allergies;	√	√	√	√
5.	The clinical information to be	gathered, which may include vital signs and components of a physical examination	√	√	√	√
6.	The non-clinical information financing, attitudes, concerns	to be gathered, which may include personal circumstances, access to health s, and priorities and expectations	<b>V</b>	√	√	√
7.	The methods, tools and techr	niques to obtain a clinical and non-clinical history relevant to scope of practice	√	√	√	√
8.	The methods, tools and techr social assessment relevant to	niques for the visual examination and cognitive, emotional, mental, physical and scope of practice	V	√	√	√
9.	Symptoms or indications requ	uiring urgent escalation of care	$\sqrt{}$	√	$\sqrt{}$	√
10.	The impact of disease, traum	a or co-morbidities on the presentation of clinical signs			$\sqrt{}$	√
11.		nts of health; culture; myths, misconceptions, stereotyping and cultural attitudes; family, employment or finances); and religious or political views on the information			√	√
12.	The possibility for undisclose	d complaints	$\sqrt{}$	√	√	√
13.	Indications of physical, psych and responses if suspected	ological or sexual abuse, human trafficking or substance use, and appropriate actions	<b>√</b>	√	√	√
14.	The range of emotional and papproaches to respond	physical responses an individual, their family and witnesses may experience, and	√	√	√	√
15.	Indicators of health and well-	being appropriate to the age group, race, sex and other characteristics	√	√	√	√
16.	Additional needs of vulnerab emergency situations	le populations in accessing and engaging with health services, including in	<b>V</b>	√	√	√
17.	The anatomy and physiology	of the human body as it relates to presenting concerns	√	√	√	√
18.	Etiology of common condition	ns and their signs, symptoms and risk factors	$\sqrt{}$	√	√	√
19.	Health and safety measures, protective equipment (PPE)	including infection prevention and control (IPC) and the use and disposal of personal	V	√	√	√
20.	The chain of infection, the rol	e of hygiene and sanitation, and prevention of health care-associated infections	√	√	√	√
21.	The principles of patient safe	ty and quality of care	√	√	√	√

#### FORMULATING A JUDGEMENT FOLLOWING A CLINICAL ENCOUNTER

Task	S	<ol> <li>Interpreting information gathered from and about the individual and their health</li> <li>Assessing the degree of urgency for a response</li> <li>Confirming or excluding hypotheses (including screening, diagnosis)</li> <li>Making a clinical judgement (including diagnosis)</li> </ol>	n needs				
	Profile A (e.g. nursing associate professional)	<ul> <li>Interpreting objective information from brief history and monitoring of vital signs f such as:         <ul> <li>recognizing and responding to urgent and emergency presentations</li> <li>evaluating the ongoing status of an individual receiving care</li> <li>screening for health conditions requiring referral for diagnosis</li> </ul> </li> </ul>	for a limit	ed range	of purpos	ses,	
Illustrative occupational roles	Profile B (e.g. CHW)	<ul> <li>Interpreting subjective and objective information from a history, visual or physical care diagnostic tests for a limited range of purposes, such as:         <ul> <li>recognizing and responding to urgent and emergency presentations</li> <li>assessing vulnerability to developing a health condition</li> <li>classifying and treating specified conditions according to decision-making aids</li> <li>screening for health conditions requiring referral for diagnosis</li> </ul> </li> </ul>	assessme	nt and so	me point	-of-	
	Profile C (e.g. nurse)	<ul> <li>Interpreting subjective and objective information from history, visual or physical as diagnostic tests for a range of purposes, including:         <ul> <li>recognizing and responding to urgent and emergency presentations</li> <li>assessing vulnerability to developing a health condition</li> <li>making a specific limited diagnosis under the responsibility of a senior health we</li> </ul> </li> </ul>		and som	e point-c	of-care	
	Profile D (e.g. paramedical practitioner)	<ul> <li>Interpreting subjective and objective information from a range of sources for a range of purposes, such as:         <ul> <li>recognizing and responding to urgent and emergency presentations</li> <li>determining death and cause of death under the responsibility of a senior health worker</li> <li>making clinical judgements in complex situations, for example with co-morbidities, or, in the absence of full information, under the responsibility of a senior health worker</li> </ul> </li> </ul>					
		information, under the responsibility of a senior health worker  — making a differential diagnosis or clinical diagnosis under the responsibility of a	senior he	alth work	ær		
Cur	ricular content		senior he	alth work	c C	D	
Cur 1.							
		<ul> <li>making a differential diagnosis or clinical diagnosis under the responsibility of a</li> <li>urgent and emergency clinical conditions, and of imminent death</li> </ul>	A	В	C	D	
1.	The signs and symptoms of u	<ul> <li>making a differential diagnosis or clinical diagnosis under the responsibility of a</li> <li>urgent and emergency clinical conditions, and of imminent death</li> </ul>	A √	B √	<b>C</b> √	D √	
1. 2.	The signs and symptoms of u The purpose for which a clini The rationale, benefits and r	— making a differential diagnosis or clinical diagnosis under the responsibility of a urgent and emergency clinical conditions, and of imminent death ical judgement is needed	<b>A</b> √ √	<b>B</b> √ √	<b>C</b>	<b>D</b> √	
1. 2. 3.	The signs and symptoms of u The purpose for which a clini The rationale, benefits and r The role of evidence, context judgement	making a differential diagnosis or clinical diagnosis under the responsibility of a urgent and emergency clinical conditions, and of imminent death ical judgement is needed isks associated with diagnosis	<b>A</b> √ √	<b>B</b> √ √	<ul><li>C</li><li>√</li><li>√</li><li>√</li></ul>	<b>D</b> √  √  √	
<ol> <li>2.</li> <li>3.</li> <li>4.</li> </ol>	The signs and symptoms of u The purpose for which a clini The rationale, benefits and r The role of evidence, context judgement	— making a differential diagnosis or clinical diagnosis under the responsibility of a urgent and emergency clinical conditions, and of imminent death ical judgement is needed isks associated with diagnosis tual information, observation, reflection and decision-making in reaching a clinical assess information and evidence for the context	<b>A</b> √  √  √	<b>B</b> √  √  √	<ul><li>C</li><li>√</li><li>√</li><li>√</li><li>√</li></ul>	<b>D</b> √  √  √	
<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>	The signs and symptoms of u The purpose for which a clini The rationale, benefits and r The role of evidence, context judgement Frameworks to interpret and The use of decision-making a	— making a differential diagnosis or clinical diagnosis under the responsibility of a urgent and emergency clinical conditions, and of imminent death ical judgement is needed isks associated with diagnosis tual information, observation, reflection and decision-making in reaching a clinical assess information and evidence for the context	A	B	<ul> <li>C</li> <li>√</li> <li>√</li> <li>√</li> <li>√</li> <li>√</li> </ul>	<b>D</b> √  √  √  √  √	
<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> </ol>	The signs and symptoms of u The purpose for which a clini The rationale, benefits and r The role of evidence, context judgement Frameworks to interpret and The use of decision-making a Approaches to evaluate the	— making a differential diagnosis or clinical diagnosis under the responsibility of a urgent and emergency clinical conditions, and of imminent death ical judgement is needed isks associated with diagnosis tual information, observation, reflection and decision-making in reaching a clinical assess information and evidence for the context aids and pattern recognition	A	B	<ul> <li>C</li> <li>√</li> <li>√</li> <li>√</li> <li>√</li> <li>√</li> <li>√</li> </ul>	D	
<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> </ol>	The signs and symptoms of u The purpose for which a clini The rationale, benefits and r The role of evidence, context judgement Frameworks to interpret and The use of decision-making a Approaches to evaluate the c The extent to which a clinica	— making a differential diagnosis or clinical diagnosis under the responsibility of a urgent and emergency clinical conditions, and of imminent death ical judgement is needed isks associated with diagnosis tual information, observation, reflection and decision-making in reaching a clinical assess information and evidence for the context aids and pattern recognition confidence and completeness of information gathered	\( \sqrt{\lambda} \)	<b>B</b> √  √  √  √  √  √  √  √  √  √  √  √  √	\( \frac{1}{\sqrt{1}} \)	D	
1. 2. 3. 4. 5. 6. 7. 8.	The signs and symptoms of u The purpose for which a clini The rationale, benefits and ri The role of evidence, context judgement Frameworks to interpret and The use of decision-making a Approaches to evaluate the o The extent to which a clinica The range and implications o investigations	— making a differential diagnosis or clinical diagnosis under the responsibility of a urgent and emergency clinical conditions, and of imminent death ical judgement is needed isks associated with diagnosis tual information, observation, reflection and decision-making in reaching a clinical assess information and evidence for the context aids and pattern recognition confidence and completeness of information gathered	\( \sqrt{\lambda} \)	<b>B</b> √  √  √  √  √  √  √  √  √  √  √  √  √	\( \frac{1}{\sqrt{1}} \)	D	
1. 2. 3. 4. 5. 6. 7. 8. 9.	The signs and symptoms of u The purpose for which a clini The rationale, benefits and r The role of evidence, context judgement Frameworks to interpret and The use of decision-making a Approaches to evaluate the o The extent to which a clinica The range and implications o investigations Key diagnostic biases, commedata	— making a differential diagnosis or clinical diagnosis under the responsibility of a urgent and emergency clinical conditions, and of imminent death ical judgement is needed isks associated with diagnosis tual information, observation, reflection and decision-making in reaching a clinical diassess information and evidence for the context aids and pattern recognition confidence and completeness of information gathered all judgement can be made on the basis of information obtained of normal and abnormal results from the relevant diagnostic procedures or	<b>A</b> √  √  √  √  √  √  √  √  √  √  √  √  √	<b>B</b> √  √  √  √  √  √  √  √  √  √  √  √  √		D	
1. 2. 3. 4. 5. 6. 7. 8. 9.	The signs and symptoms of u The purpose for which a clini The rationale, benefits and ri The role of evidence, context judgement Frameworks to interpret and The use of decision-making a Approaches to evaluate the o The extent to which a clinica The range and implications o investigations Key diagnostic biases, comm data The anatomy and physiology	— making a differential diagnosis or clinical diagnosis under the responsibility of a urgent and emergency clinical conditions, and of imminent death ical judgement is needed isks associated with diagnosis tual information, observation, reflection and decision-making in reaching a clinical diagnosis assess information and evidence for the context aids and pattern recognition confidence and completeness of information gathered all judgement can be made on the basis of information obtained of normal and abnormal results from the relevant diagnostic procedures or non errors, and issues relating to diagnosis in the face of ambiguity and incomplete	A   √   √   √   √   √   √     √     √     √     √     √	<b>B</b> √  √  √  √  √  √  √  √  √  √  √  √  √		D	
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	The signs and symptoms of the purpose for which a clinical of the rationale, benefits and risk the role of evidence, context judgement  Frameworks to interpret and the use of decision-making and Approaches to evaluate the context to which a clinical of the extent to which a clinical the range and implications of investigations  Key diagnostic biases, communications of the anatomy and physiology of common conditions.	— making a differential diagnosis or clinical diagnosis under the responsibility of a urgent and emergency clinical conditions, and of imminent death ical judgement is needed isks associated with diagnosis tual information, observation, reflection and decision-making in reaching a clinical diagnosis assess information and evidence for the context aids and pattern recognition confidence and completeness of information gathered all judgement can be made on the basis of information obtained of normal and abnormal results from the relevant diagnostic procedures or non errors, and issues relating to diagnosis in the face of ambiguity and incomplete of the human body as it relates to presenting concerns	A   √   √   √   √   √     √     √     √     √     √     √     √     √     √       √	<b>B</b> √  √  √  √  √  √  √  √  √  √  √  √  √		D	
1. 2. 3. 4. 5. 6. 7. 8. 9. 10. 11. 12.	The signs and symptoms of u The purpose for which a clini The rationale, benefits and ri The role of evidence, context judgement Frameworks to interpret and The use of decision-making a Approaches to evaluate the o The extent to which a clinica The range and implications o investigations Key diagnostic biases, comm data The anatomy and physiology Etiology of common condition The diagnostic criteria, name staging if relevant	— making a differential diagnosis or clinical diagnosis under the responsibility of a urgent and emergency clinical conditions, and of imminent death ical judgement is needed isks associated with diagnosis tual information, observation, reflection and decision-making in reaching a clinical diagnosis assess information and evidence for the context aids and pattern recognition confidence and completeness of information gathered all judgement can be made on the basis of information obtained of normal and abnormal results from the relevant diagnostic procedures or non errors, and issues relating to diagnosis in the face of ambiguity and incomplete of the human body as it relates to presenting concerns	A   √   √   √   √   √     √     √     √     √     √     √     √     √     √       √	<b>B</b> √  √  √  √  √  √  √  √  √  √  √  √  √		D	

#### MANAGING CONVERSATIONS WITH INDIVIDUALS AND THEIR FAMILIES

Task	S	<ol> <li>Planning for the conversation</li> <li>Initiating the conversation</li> <li>Gathering information about the individual's current understanding, expectations</li> <li>Providing information</li> <li>Responding to the other person</li> <li>Discussing, summarizing information and providing support or direction</li> <li>Closing the conversation</li> </ol>	and con	cerns					
oles	Profile A (e.g. nursing associate professional)	Managing conversations about the practical arrangements for an agreed management concerns or feelings	ent plan;	listening	to indivi	dual			
ational r	Profile B (e.g. CHW)								
Ilustrative occupational roles	Profile C (e.g. nurse)	Managing difficult conversations, for example facilitating partner or family notificat agreed management plan, including end-of-life care; breaking bad news (including).		diagnosis	; discussi	ng an			
Mustrati	Profile D (e.g. paramedical practitioner)  • Managing difficult conversations, for example facilitating partner or family notification of a diagnosis; discussing a proposed management plan, including end-of-life care; reaching shared decisions; breaking bad news (including death); discussing organ donation and procurement								
Curi	icular content		A	В	C	D			
1.	Methods to tailor the conver to be provided, and collabora	sation to achieve the goal, including information to be conveyed or gathered, support ative decision-making	V	√	√	√			
2.	disclosure, for example to w	on for the conversation, including the facts and their implications; the level of hom and when; the physical environment; how to manage potential barriers to and entitlements of the individual	√	√	√	√			
3.	Any likely challenges during individual and achieve the g	the encounter, and phrases, approaches and methods to provide support to the oal of the conversation	V	√	√	√			
4.	The impact of bad news and mechanisms	potential emotional responses, including the stages of grief, and coping and response			1	√			
5.	The impact of bad news on c psychological adjustment	omprehension, satisfaction with health care, level of hopefulness and subsequent	1	√	√	√			
6.	Clinical terminology, includi	ng abbreviations and how to translate these into lay terms			√	√			
7.	The impact of culture finance	re, religion and politics on views and behaviours with regard to health, care seeking,	√	V	√	√			

#### **ADVOCACY FOR INDIVIDUAL HEALTH NEEDS**

Task	S	<ol> <li>Clarifying the individual's health literacy and health needs</li> <li>Identifying a problem and potential solutions</li> <li>Providing support to the individual to help them manage their own health or access health services</li> <li>Representing the individual and their rights in decisions about their care</li> </ol>
al roles	Profile A (e.g. nursing associate professional)	<ul> <li>Providing aspects of practical help, linking the individual with other health services</li> <li>Helping the individual understand information about their health and their options</li> </ul>
ation	Profile B (e.g. CHW)	Helping the individual to express themselves, ask questions or ask for help     Representing the individual and their rights in decisions, particularly during transfers of care
dnoo	Profile C (e.g. nurse)	nepresenting the mannada and their rights in decisions, purdicularly during trainers of care
Illustrative occupational roles	Profile D (e.g. paramedical practitioner)	

Cur	ricular content	A	В	C	D
1.	The range of factors that might affect an individual's health literacy	√	√	√	√
2.	The range of factors that might affect an individual's ability to ensure their own health needs are met	√	√	√	√
3.	The range of barriers to accessing health services that an individual may experience	√	√	√	√
4.	Additional needs of specific vulnerable populations in accessing and engaging with health services	√	√	√	√
5.	The social and environmental determinants of health and well-being	√	√	√	√
6.	Methods of supporting the individual to express themselves or ask for help	√	√	√	√
7.	Approaches to, and resources for, providing practical help	√	√	√	√
8.	The opportunities for advocacy with decision-makers about an individual's health care	√	√	√	√
9.	Tools and techniques to advocate, persuade and negotiate	√	√	√	√
10.	Sources of further information and support, including community programmes	√	√	√	√
11.	Structures, functions and authorities of actors within the health system	√	√	√	√
12.	The contextual information relating to the individual's health needs	√	√	√	√

#### PROVIDING INFORMATION AND SUPPORT TO IMPACT INDIVIDUAL HEALTH BEHAVIOURS

Task	<ol> <li>Providing information about positive and harmful behaviours</li> <li>Collaborating with the individual to identify health behaviour changes</li> <li>Distributing non-medical supplies, such as bednets or pedometers</li> <li>Referring to services to support behaviour change efforts, such as tobacco cessation centres</li> <li>Monitoring and tracking behaviour change</li> </ol>					
oles	Profile A (e.g. nursing associate professional)	<ul> <li>Responding to requests for health information in general terms</li> <li>Distributing non-medical supplies</li> <li>Referring to services to support behaviour change efforts</li> </ul>				
Illustrative occupational roles	Profile B (e.g. CHW)	<ul> <li>Providing targeted and tailored education, information, counselling and advice</li> <li>Distributing non-medical supplies</li> <li>Referring to services to support behaviour change efforts</li> </ul>				
ve oc	Profile C (e.g. nurse)	Providing targeted and tailored information, counselling and motivational therapies		6.1.1		
Illustrati	Profile D (e.g. paramedical practitioner)	<ul> <li>Supporting the individual to identify motivations and barriers to change, develop a have control over their own health choices</li> <li>Distributing non-medical supplies</li> <li>Referring to services to support behaviour change efforts</li> <li>Monitoring and tracking behaviour change and health impact</li> </ul>	perception	on of thei	r own ris	k, and
Curi	icular content		A	В	C	D
1.	The principles and purpose o	f health promotion and disease, disability and injury prevention	√	√	√	√
2.	The concepts and theories of	behaviour change		√	√	√
3.	Methods to identify and und	erstand the individual's level of health literacy	$\sqrt{}$	√	√	√
4.	Positive and safe behaviours	appropriate to the age group and life stage	$\sqrt{}$	√	√	√
5.	Populations at risk of specific	conditions and the needs of different people at different life stages		√	√	√
6.	environment, such as electric	rs on health, including conflict or war; diet and nutrition; exercise; household city, shelter, water and sanitation; alcohol, drug and substance use; firearms; hygiene; ollution and environmental factors; preventive health checks; physical, psychological fety	V	√	√	√
7.	Indications of actual or poter	ntial threats to an individual's health	√	√	√	√
8.	Indications of physical, psych and responses if suspected	nological or sexual abuse, human trafficking or substance use, and appropriate actions	1	√	V	1
9.	The role of different organiza	tions if intervening when an individual is vulnerable or at risk			√	√
10.	The legal implications and sa at risk	rfety measures for own protection if intervening when an individual is vulnerable or	1	√	√	√
11.	Contributing factors to an inc	dividual's actual and perceived susceptibility and severity of a health threat		√	√	√
12.		n take to reduce the risk or seriousness (how, what, when and where) of harmful nd perceived benefits and barriers to taking action (why)	√	√	√	√
13.	The range of motivations peo	pple have for changing their behaviours		√	√	√
14.	The impact of individuals' pe	rceptions of risks, threats, barriers and efficacy on their willingness to make changes		√	√	√
15.	The range of cues to action the	hat may activate a readiness to change		√	$\sqrt{}$	√
16.	Relevant educational and inf	formational materials in formats appropriate to the individual's health literacy	$\sqrt{}$	√	√	√
17.	Availability of and access to r	non-medical supplies and any instructions for correct use	√	√	√	√
18.	Availability of targeted healt care, peer-to-peer or virtual	h services, such as community-based services, counselling, food programmes, hospice support groups, or shelters	√	√	√	√
19.	Additional needs of vulnerab	le populations in accessing and engaging with health services	√	√	√	√
20.	Availability and accessibility	of complementary and alternative services and medicines		√	√	√
21.		enable behaviour change, such as motivational interviewing, cognitive behavioural rcement techniques, peer support, adult learning methods, solution-focused therapy, incremental successes			√	√

# PRACTICE ACTIVITY 6 **GAINING INFORMED CONSENT**

Task	<ol> <li>Sharing information about the procedures or treatments</li> <li>Addressing the individual's concerns</li> <li>Confirming the individual's comprehension</li> <li>Confirming verbal consent or reconsent</li> <li>Documenting written consent or reconsent</li> </ol>					
al roles	Profile A (e.g. nursing associate professional)	Obtaining informed consent for the procedures or treatments within role and response	nsibility			
ation	Profile B (e.g. CHW)					
noo	Profile C (e.g. nurse)					
Illustrative occupational roles	Profile D (e.g. paramedical practitioner)					
Curi	icular content		A	В	C	D
1.		of care, including goals of care, best-interest care decisions, advance directives nt), surrogate decision-making	√	√	√	√
2.	The principles and componen	nts of informed consent	√	√	√	√
3.	The legal and ethical implica	tions of verbal or written informed consent	√	√	√	√
4.	The moral and legal autonor	ny of the individual to make decisions about their health	√	√	√	√
5.	The situations in which to ob	tain voluntary informed consent and reconsent, and when consent can be assumed	√	√	√	√
6.	Methods to determine an inc a caregiver	lividual's decision-making capacity, and the steps for gaining informed consent from	√	√	√	√
7.	Cultural factors impacting w	hom to obtain consent from	√	√	√	√
8.	The impact of culture, finance and disease	e, religion and politics on views and behaviours towards health, care seeking, illness	√	√	√	√
9.	The range of individual prefetime to reflect	rences for considering their options, including the right to refuse information, and	√	√	√	√
10.	The nature, purpose, risks an	d benefits of the proposed health intervention	√	√	√	√
11.	Potential care alternatives, in	ncluding nature, purpose, risks and benefits	√	√	√	√
12.	The role of the health worker	in helping the individual make a voluntary decision	√	√	√	√
13.		ectivity, coercion, manipulation and persuasion	√	√	√	√
14.	Approaches to managing situ	uations in which consent is not given	√	√	√	√
15.	The evidence and document	ation required for informed consent	√	√		√

# ORDERING, ADMINISTERING AND INTERPRETING THE RESULTS OF DIAGNOSTIC AND SCREENING PROCEDURES

Task	S	<ol> <li>Evaluating information to determine when a procedure is needed</li> <li>Explaining the risks and benefits of a proposed procedure</li> <li>Ordering the procedure (if externally conducted)</li> <li>Planning for the administration of the procedure</li> <li>Preparing the individual physically and psychologically to undergo the procedure</li> <li>Conducting the procedure, promoting or supporting the individual to use a self-c</li> <li>Evaluating outputs of the procedure to determine if satisfactory for diagnostic int</li> <li>Interpreting the results of the procedure</li> </ol>	are interv			
	Profile A (e.g. nursing associate professional)	<ul> <li>Providing support tasks, such as making arrangements for the individual to attend</li> <li>Providing assistance during a more complex procedure, for example preparing, pos individual</li> </ul>			ring the	
ıal roles	Profile B (e.g. CHW)	<ul> <li>Collecting specimens for testing</li> <li>Administering and interpreting the results of specified point-of-care diagnostic test of a self-care intervention</li> <li>Providing support tasks, such as making arrangements for the individual to attend</li> </ul>	-		r support	ing use
Illustrative occupational roles	Profile C (e.g. nurse)	<ul> <li>Collecting specimens for testing</li> <li>Administering and interpreting the results of specified point-of-care diagnostic tess of a self-care intervention</li> <li>Providing assistance during a more complex diagnostic procedure, for example prethe individual</li> </ul>	-			
1	Profile D (e.g. paramedical practitioner)	<ul> <li>Collecting specimens for testing, or supporting use of a self-care intervention</li> <li>Ordering and interpreting procedural reports, sometimes under the responsibility of</li> <li>Administering and interpreting the results of specified diagnostic investigations or responsibility of a senior health worker</li> <li>Ordering and interpreting the reports of specified diagnostic procedures under the worker</li> </ul>	procedure	es under 1	the	alth
Curi	ricular content		A	В	C	D
1.	The role of diagnostic proced	ures in confirming or eliminating diagnostic hypotheses	√	√	√	√
2.	The indications for the proce	dure			√	√
3.	The range of potential diagn	oses relating to the presenting symptoms			√	√
4.	The symptoms that may be a	secondary presentation of an underlying cause			√	√
5.	The range of investigations a	ppropriate to the presenting symptoms			√	√
6.	Known and potential contrai availability	ndications for the range of investigations, risks and benefits, costs, access and			√	√
7.	Approaches to evaluate the extended risks	effectiveness, relevance and implications of proceeding, with due consideration of			√	√
8.	The anatomy, physiology, pa characteristics of the individu	thology and related structures, as relevant to the investigation and to the ual			√	√
9.	The steps to administer the p		√	√	√	√
10.	The techniques and procedu	•	√	√	√	√
11.	equipment, and medications					√
12.		istration of the procedure or investigation to the characteristics of the individual			√	√
13.	The optimum conditions for preparation of the individual	obtaining best results, including quality assurance processes, positioning or	√	√	√	√
14.	The range of expected and u reactions	nexpected individual responses to specific investigation, and indications of adverse	√	√	√	√
15.	Methods to manage and rep	ort adverse events	√	√	√	√
16.	The capabilities and limitation	ons of any tools or equipment used	√	√	√	√
17.	The importance of calibration they are not fit for use	n and routine maintenance of tools or equipment; indicators of malfunctions or that	√	√	√	√

# PRACTICE ACTIVITY 7, continued

#### ORDERING, ADMINISTERING AND INTERPRETING THE RESULTS OF DIAGNOSTIC AND SCREENING PROCEDURES

19.	Key diagnostic biases, common errors, and issues relating to diagnosis in the face of ambiguity and incomplete data			√	√
20.	The chain of infection, the role of hygiene and sanitation, and prevention of health care-associated infections	√	$\sqrt{}$	√	√
21.	The principles of patient safety and quality of care	√	√	√	√
22.	Relevant clinical terminology and measurements that may be used by different health workers or in different care environments	√	√	√	√

#### **DEVELOPING AND ADJUSTING A MANAGEMENT PLAN**

Task	S	oers of th	e health t	team, as					
	Profile A (e.g. nursing associate professional)	Proposing a management plan following an assessment of health needs, usually proposed to the second se	promotive or preventive						
Illustrative occupational roles	Profile B (e.g. CHW)	<ul> <li>Developing a standard management plan for specified health needs, which can usu first visit, including common ailments or minor injuries</li> <li>Monitoring an individual's response to a management plan developed by others and review</li> </ul>	·						
strative occ	Profile C (e.g. nurse)	<ul> <li>Developing and implementing management plans in collaboration with other healt</li> <li>Making decisions on pathways of care, including transferring to palliative care or otl</li> <li>Monitoring an individual's response to management plans and making recommend</li> </ul>	her care e	environm	ents				
n∭	Profile D (e.g. paramedical practitioner)	<ul> <li>Developing, reviewing, adjusting and implementing management plans in collabor for a range of circumstances or conditions</li> <li>Making decisions on pathways of care, including transferring to palliative care or otl</li> </ul>				rkers			
Curi	ricular content		A	В	C	D			
1.	The role and characteristics of	of a team-based, people-centred management plan	√	√	√	√			
2.		of care, including goals of care, best-interest care decisions, advance directives nt), surrogate decision-making	√	√	1	√			
3.	The people to involve in reac other health workers and oth	hing agreement on a management plan, including referral, involving the individual, ners in other care settings		√	√	√			
4.	The range of potential barrie thereof	rs to effective implementation of health management plans and the mitigation	√	√	√	√			
5.	concerns, priorities and expe	nal's personal circumstances, including their attitudes, cultural beliefs and practices; ctations for care; barriers to and acceptability of treatment options; and associated eotyping or stigma associated with the management plan	√	√	√	√			
6.	The individual's access to fina of earnings, transportation)	ancial resources or ability to pay for health services and other costs (for example, loss	√	√	√	√			
7.		ement plan of a likely diagnosis; causal factors; the individual's clinical status, dherence; allergies; and access to necessary tools, treatments or aids in routine or	√	√	√	√			
8.	The completeness of and con information	ifidence in the information obtained from the available subjective and objective	√	√	√	√			
9.	The evidence base for pharm management plan	acological and non-pharmacological interventions within the individual's			√	√			
10.		macological and non-pharmacological interventions for the individual's health needs ninate unnecessary intervention, for example in childbirth			√	√			
11.		condition, common opportunistic infections, the range of recovery periods, side- timeline for resuming normal activities (if appropriate)		√	√	√			
12.		ic health condition, including likely short-, medium- and long-term effects on the ychological and mental states and function (if appropriate)	√	√	√	√			
13.	Causal and risk factors of the	diagnosis, including infection transmission		√	√	√			
14.	The relevant anatomy, functi	ons, physiology, pathology and structures of the relevant part of the body		√	√	√			
15.	Etiology of the likely diagnos	is of any co-morbidities, and their signs, symptoms and risk factors		√	√	√			
16.	pathways, eligibility criteria,	rentive, curative, rehabilitative and palliative treatment and care options and their costs, resource requirements (personnel, assistive products, equipment), pose, benefits, side-effects and risks			V	√			
17.	Sources of further information	on and support for the individual, including community programmes		√	√	√			
18.	Additional needs of vulnerable emergency situations	ole populations in accessing and engaging with health services, including in	√	√	√	√			

# PRACTICE ACTIVITY 8, continued

# **DEVELOPING AND ADJUSTING A MANAGEMENT PLAN**

19	. The potential consequence of overdiagnosis and overtreatment			$\sqrt{}$	√
20	. Different reasons for which deviation from an agreed treatment plan can occur, and methods to support individuals to follow a treatment plan	√	√	<b>√</b>	√
21	. Indications of adverse reactions, deviations from a treatment plan, or changes in the individual's clinical condition or preferences	√	√	<b>√</b>	√
22	. Management responses to adverse reactions, deviations from the agreed treatment plan or changes in the individual's clinical condition or preferences (range of actions within scope, and circumstances in which to recommend referral)		√	1	√ √

#### PRESCRIBING MEDICATIONS OR THERAPEUTICS

Task	S	bjective armacolo	gical trea	tment op	otions				
Iroles	Profile A (e.g. nursing associate professional)	[Not applicable]							
Illustrative occupational roles	Profile B (e.g. CHW)	Protocol-based disbursement of a restricted range of medications or therapeutics in regulations, under the responsibility of a senior health worker	accorda	nce with o	occupatio	onal			
ative occ	Profile C (e.g. nurse)	Prescribing a restricted range of medications or therapeutics in accordance with occuresponsibility of a senior health worker	upationa	ıl regulati	ons, und	er the			
Mustra	Profile D (e.g. paramedical practitioner)  • Prescribing medications or therapeutics in accordance with occupational regulations, under the responsibility of a senior health worker								
Curi	ricular content		A	В	C	D			
1.	When, why and how to use r promote health	non-pharmacological and pharmacological approaches to treat or modify disease and			V	√			
2.	The signs, symptoms and car	uses of the condition to be treated, and its common natural progression		√	√	√			
3.	Access to and availability of medication clinics, essential	non-pharmacological and pharmacological treatment options, for example medicines list			1	√			
4.	The individual's access to finate			√	√				
5.	Common cultural attitudes t		√	√	√				
6.	The pharmacodynamics, pha pharmacology and therapeu be altered when used in spec impairment, size, lactation o			√	√				
7.	circumstances, attitudes, cul	relating to the individual's history, travel, allergies and clinical status; their personal tural beliefs and practices; their concerns, priorities and expectations; barriers to and ptions; and associated misconceptions, myths, stereotyping or stigma		√	√	√			
8.		logical treatment options, including the national or institutional essential medicines isruption; costs and restrictions of medications and generics; and availability of and ergency situations			$\sqrt{}$	√			
9.	Methods by which to assess anticipated response to man	the severity, urgency and rate of deterioration of the presenting conditions, and lagement		√	$\sqrt{}$	√			
10.	The potential side-effects an manage these	nd contraindications of a planned prescribed medication, and steps to minimize and		√	V	√			
11.	Common adverse interaction	ns together with strategies to avoid these		√	√	√			
12.	The legal, ethical and profess and the prescribing of unlice	sional frameworks related to controlled medicines, off-label prescribing of medicines ensed medicines			V	√			
13.	Methods to determine the le	evel of monitoring of clinical impact needed			√	√			
14.					V	√			
15.	The principles of antimicrobi	ial use, surveillance and stewardship		√	$\sqrt{}$	√			
16.	The development, causes an of antimicrobial therapy	d threats to health of antimicrobial resistance, and the impact of resistance on choice			V	√			
17.		to medicine use, including antimicrobial resistance, substandard or falsified e medicine use, such as overprescribing and underprescribing			√	√			
18.	The principles of patient safe	ety and quality of care	√	√	$\sqrt{}$	√			

#### PREPARING AND DISPENSING MEDICATIONS OR THERAPEUTICS

Task	S	<ol> <li>Confirming a prescription order validation</li> <li>Confirming the therapeutic appropriateness for the individual</li> <li>Preparing the medications or therapeutics for dispensing</li> <li>Educating the individual and family on self-administration and when to seek help</li> <li>Supplying the medications or therapeutics</li> </ol>				
nal roles	Profile A (e.g. nursing associate professional)	Preparing and dispensing a limited number of medications or therapeutics under sp	ecified c	riteria		
atior	Profile B (e.g. CHW)	• Dispensing a limited number of medications or therapeutics under specified criteria				
Illustrative occupational roles	Profile C (e.g. nurse)	Preparing and dispensing medications or therapeutics under specified criteria, inclumixed prior to administration	ding me	dications	that nee	d to be
Mustral	Profile D (e.g. paramedical practitioner)	Checking medications or therapeutics prepared by others     Preparing and dispensing medications or therapeutics within scope of practice				
Curi	ricular content		A	В	C	D
1.	Common prescribing, admin address them	istration and dispensing errors, their risks and impacts, and methods to detect and	√	√	√	√
2.	Information to be included o	n a prescription order	√	√	√	√
3.	The common signs and symp	otoms of the condition to be treated, and its common natural progression	√	√	√	√
4.	The availability of pharmacological treatment options, methods of managing disruption, and costs and restrictions of medications and generics				√	√
5.	Common cultural attitudes and misconceptions regarding medications, traditional medicines and homeopathy				√	√
6.	The pharmacodynamics, pha pharmacology and therapeu be altered when used in spec impairment, size, lactation o			√	√	
7.	The potential side-effects, co and steps to minimize and m	ontraindications and common adverse reactions of the medication or therapeutics, nanage these	√	√	√	√
8.		logical treatment options, including the national or institutional essential medicines isruption, and costs and restrictions of medications and generics			√	√
9.		sional frameworks related to controlled medicines, mixing of medicines, off-label I the prescribing of unlicensed medicines			√	√
10.	The correct methods and sch	edules of medication or therapeutics administration	$\sqrt{}$	√	√	√
11.	The importance for the indiv therapeutics	idual to follow the prescribed regimen, and not to share or stockpile medications or	√	√	√	√
12.	Public health issues relating medicines, and inappropriate	to medicine use, including antimicrobial resistance, substandard or falsified e medicine use, such as overprescribing and underprescribing			√	√
13.	The information to be provided to the individual or person responsible for medication or therapeutics administration				√	1
14.	Methods of and role in medication or therapeutics stock control				√	√
15.	Methods of medication or th	erapeutics preparation and disposal	√	√	√	√
16.	Health and safety measures,	including IPC and the use and disposal of PPE	√	√	√	√
17.	The chain of infection, the ro	le of hygiene and sanitation, and prevention of health care-associated infections	$\sqrt{}$	√	√	√
18.	The principles of patient safe	$\sqrt{}$	√	√	√	

#### **ADMINISTERING MEDICATIONS OR THERAPEUTICS**

Task	S	<ol> <li>Evaluating instructions for administration</li> <li>Confirming the therapeutic appropriateness for the individual</li> <li>Preparing the medications or therapeutics for administration</li> <li>Administering the medications or therapeutics</li> <li>Monitoring response and managing adverse reactions</li> </ol>				
les	Profile A (e.g. nursing associate professional)	Administering medications or therapeutics, usually according to strict criteria				
nal rol	Profile B (e.g. CHW)					
Illustrative occupational roles	Profile C (e.g. nurse)	<ul> <li>Administering initial, loading and maintenance doses of medications (excluding an including parenteral or other routes of administration, as per prescription</li> <li>Managing administration of multiple medications or therapeutics</li> </ul>	aesthesia	) or thera	peutics,	
Illustrativ	Profile D (e.g. paramedical practitioner)	<ul> <li>Administering initial, loading and maintenance doses of medications or therapeutic intravenous or other routes of administration (may include local anaesthesia in special Administering medications without prescription in emergency situations</li> <li>Managing administration of multiple medications or therapeutics</li> </ul>				
Cur	ricular content		A	В	C	D
1.	General therapeutic uses of the medication to be administered			√	√	√
2.	The instructions for dosage,	ne instructions for dosage, route and timing of medication or therapeutics administration		√	√	√
3.	The methods of medication or therapeutics administration appropriate to the selected route				√	√
4.	The possible side-effects, increactions	lications of adverse reactions, and strategies to respond to and manage adverse	√	√	√	√
5.	The main indications of the r	nedication or therapeutics	√	√	√	√
6.	Methods to assess the severi	ty, urgency, rate of deterioration and anticipated response to medicines	√	√	√	√
7.	The level of monitoring need	led during and following administration of medications or therapeutics	√	√	√	√
8.	Common prescribing, dispen	sing and administration errors, and methods to detect and address them	√	√	√	√
9.		sional frameworks related to controlled medicines, therapeutics, mixing of medicines, cines and the prescribing of unlicensed medicines			√	√
10.	The consequences for personal and public health of substandard or falsified medicines and the importance of obtaining medicines from a reliable supplier			√	√	√
11.	Health and safety measures,	including IPC and the use and disposal of PPE	√	√	√	√
12.	The chain of infection, the ro	le of hygiene and sanitation, and prevention of health care-associated infections	√	√	√	√
13.	The principles of patient safe	ety and quality of care	√	1	√	√

# PRACTICE ACTIVITY 12 **SELECTING ASSISTIVE PRODUCTS**

Task	is.	<ol> <li>Carrying out screening to identify who may benefit from assistive products</li> <li>Carrying out an assessment in order to select the assistive products and required to individuals</li> <li>Referring to another service as needed</li> <li>Agreeing an assistive product selection and provision plan with the individual</li> <li>Ordering the product</li> <li>Writing instructions for the fitting and use of the product</li> <li>Taking action to ensure monitoring and follow-up</li> </ol>	features t	hat best	meet the	needs			
es	Profile A (e.g. nursing associate professional)	<ul> <li>Conducting screening for assistive product needs and assessment for a specified, lin products (for example reading glasses, pill organizers or elbow crutches)</li> <li>Using screening and assessment information to identify the need for and make refe other services, and select the best assistive product and associated features (from a practice)</li> <li>Ordering selected assistive products from existing stock</li> </ul>	errals for a	assistive p	· oroducts	or			
Illustrative occupational roles	Profile B (e.g. CHW)	<ul> <li>Conducting screening for assistive product needs and assessment for a specified, lin products (for example reading glasses, pill organizers or elbow crutches) using pred</li> <li>Using screening and assessment information to identify the need for and make refe other services, and select the best assistive product and associated features (from a practice)</li> <li>Ordering selected assistive products from existing stock</li> </ul>	lefined po errals for a	rotocols assistive p	oroducts	or			
ust	Profile C (e.g. nurse)	Conducting screening for assistive product needs and assessment for a specified, wider range of simple assistive							
	Profile D (e.g. paramedical practitioner)	<ul> <li>products (for example therapeutic footwear, white canes, communication boards) uprocedures</li> <li>Using screening and assessment information to identify the need for and make refeother services, and select the best assistive product and associated features (from a practice)</li> <li>Ordering selected assistive products from existing stock</li> </ul>	errals for a	assistive p	oroducts				
Cur	ricular content		A	В	C	D			
1.	How assistive products can s limitations	upport a person with cognition, communication, hearing, mobility or vision	√	√	√	√			
2.	The importance of individua	l assessment to select the most appropriate assistive product to meet their needs	√	√	√	√			
3.	The range of assistive produc adaptations that can be made	cts available (within scope of practice), including their features and possible le to suit individual needs	√	√	√	√			
4.	Manufacturing recommenda storing and disposal	ations, infection control requirements and protocols regarding product use, cleaning,	√	√	√	√			
5.	The range of people who ma	y benefit from the available assistive products and inclusion and exclusion criteria	√	√	√	√			
6.	Common cultural and individe and the use of assistive produced	dual attitudes, perceptions and sensitivities that may be associated with impairment ucts	√	√	√	√			
7.	The impact of physical, healt of an assistive product	th, environmental, cultural and lifestyle needs on the selection, specification and use	√	√	√	√			
8.									
	Potential risks for individuals	s associated with poor product selection or incorrect use and strategies to mitigate	√	√	√	√			
9.	risk, including education and	d monitoring							
9.	<del>-</del>	screening, assessment and referral guidelines, procedures and protocols	√	√	√	√			
	<del>-</del>	screening, assessment and referral guidelines, procedures and protocols	√ √	√ √	√ √	√ √			
10.	Organizational standardized Local referral networks and r	screening, assessment and referral guidelines, procedures and protocols	_			-			

# PRACTICE ACTIVITY 13 PROVIDING ASSISTIVE PRODUCTS

Task	S	<ol> <li>Preparing, fitting and setting up the assistive product for the person, including adjadaptations as required</li> <li>Teaching the person how to use and look after their assistive product</li> <li>Carrying out monitoring and follow-up activities</li> <li>Carrying out basic maintenance and repairs</li> </ol>	justing f	eatures a	nd makir	ng			
oles	Profile A (e.g. nursing associate professional)	r a specified, limited range of simple assistive products (for example reading glasses, pill organizers or elbow atches):							
Illustrative occupational roles	Profile B (e.g. CHW)	reparing and fitting the assistive product eaching the person how to use and look after the assistive product arrying out monitoring, follow-up, basic maintenance and repairs							
י סכנו	Profile C (e.g. nurse)	For a specified, wider range of simple assistive products (for example therapeutic foot	wear, wh	nite canes	5,				
Illustrative	Profile D (e.g. paramedical practitioner)	communication boards): <ul> <li>preparing and fitting the assistive product</li> <li>teaching the person how to use and look after the assistive product</li> <li>carrying out monitoring, follow-up, basic maintenance and repairs</li> </ul>							
Curi	ricular content		A	В	C	D			
1.	How to prepare, adjust or ma	ake safe adaptations to the assistive product	$\sqrt{}$	√	√	√			
2.	The prevalence of cognitive, functional, physical and visual impairments, and common causes (conditions, injuries, age related)				√	√			
3.	How home, work or other environments impact the set-up and use of assistive products and options for mitigating negative impacts				√	√			
4.	General and manufacturer-s product	pecific recommendations for the care, routine maintenance and repair of the assistive	√	√	√	√			
5.	Key information that people of that product	using each assistive product need to know in order to maximize safe and effective use	1	√	√	√			
6.	Potential risks and causes of these risks	abandonment associated with the use of the assistive product and how to monitor	1	√	√	√			
7.	Recommended follow-up in circumstances	tervals for each assistive product, and how these may be affected by the individual's	1	√	√	√			
8.	Follow-up methods and information required to identify if a product is continuing to meet an individual's needs and is in good working order				√	√			
9.	Methods for care, routine maintenance and repair of the assistive product				√	√			
10.	Reuse of, recycling of or disp	√	√	√	√				
11.	Health and safety measures,	including IPC and the use and disposal of PPE	√	√	√	√			
12.	The chain of infection, the ro	√	√	√	√				
13.	The principles of patient safe	√	√	√	√				

#### PROVIDING NON-PHARMACOLOGICAL HEALTH INTERVENTIONS

Task	S	<ol> <li>Confirming information about the individual's health needs</li> <li>Confirming therapeutic appropriateness for the individual</li> <li>Planning for the health intervention</li> <li>Supporting the individual to prepare for the health intervention</li> <li>Providing the procedure or therapy or facilitating a normal physiological event su</li> <li>Monitoring response and managing adverse reactions</li> </ol>	ıch as chil	dbirth						
oles	Profile A (e.g. nursing associate professional)	Providing nursing care and personal care Providing dependent interventions or tasks towards interventions under the direction of a senior health worker								
ational r	Profile B (e.g. CHW)	Planning and providing routine independent, interdependent or dependent interventions of a restricted scope that do not require adaptation to the individual								
Illustrative occupational roles	Profile C (e.g. nurse)  • Planning and providing nursing care and personal care • Planning and providing specified independent, interdependent or dependent interventions under the responsibility of a senior health worker									
Illust	Profile D (e.g. paramedical practitioner)	Planning and providing a wider range of specified independent, interdependent or sometimes under the responsibility of a senior health worker	depende	nt interve	entions,					
Curi	ricular content		A	В	C	D				
1.	The goals of care for the indi	vidual and the basis for the intervention within the management plan	√	√	√	√				
2.	The evidence base for the int	rervention in the context			√	√				
3.	The resource requirements for the intervention, including support for any adverse events (environment, staffing, equipment)				√	1				
4.	Methods for planning for the environment	intervention, such as booking facilities, equipment or teams, and preparing the			√	1				
5.	Factors that affect the choice	of equipment or infrastructure, including availability and supply chain		√	√	√				
6.	The purpose, types, function equipment used	s, potential hazards and requirements for maintenance and disposal of devices and	√	√	√	1				
7.	The relevant steps that the ir	ndividual must take prior to the intervention	√	√	√	√				
8.	The anatomy and physiology	relevant to the intervention			√	√				
9.	Methods and techniques for	the intervention, including safety and quality checks of equipment and facilities	√	√	√	√				
10.	Methods of adapting the into	ervention to the individual			√	√				
11.	Level of monitoring during and following the intervention, indications of adverse events, and strategies to manage and respond to these		√	√	√	√				
12.	Post-procedural or therapeur	tic care requirements	√	√	√	√				
13.	Health and safety measures,	including IPC and the use and disposal of PPE	√	√	√	√				
14.	The chain of infection, the ro	le of hygiene and sanitation, and prevention of health care-associated infections	√	√	√	√				
15.	The principles of patient safe	ty and quality of care	√	√	√	√				

#### PROVIDING TREATMENT AND CARE SUPPORT TO INDIVIDUALS

Task	S							
	<ol> <li>Providing care or support, including:         <ul> <li>a. assistance with adapting to and coping with changes in health status and daily l</li> <li>b. psychosocial and functional support</li> <li>c. personal and nursing care</li> <li>d. clinical care, such as cleaning wounds, changing a dressing, managing pain or di</li> <li>e. education and counselling of individuals or their families</li> </ul> </li> <li>Monitoring an individual's response and adherence to treatment and care plans, tal manage the response or escalate for a review of management plan</li> </ol>				cessary t	0		
Illustrative occupational roles	Profile A (e.g. nursing associate professional)  Profile B (e.g. CHW)	Providing clinical support tasks, as identified in the management plan Supporting the individual to have control of and be involved in their own treatment and care Providing emotional and psychological support and guidance in following management plans and treatment adherence						
Illustrative occ	Profile D (e.g. paramedical practitioner)	Profile C (e.g. nurse)  Profile D (e.g. paramedical practitioner)  • Educating and training the individual and families in self-care						
Cur	ricular content		A	В	C	D		
1.		of care, including goals of care, best-interest care decisions, advance directives t), surrogate decision-making	V	√	√	√		
2.	The physiological signs, symp to the clinical diagnosis and n	otoms, progression and common responses related to the treatment plan, as relevant management plan	V	√	1	√		
3.	The range of recovery periods and side-effects, and approximate timeline for resuming normal, altered or reduced activities				V	√		
4.	Symptoms or indications requ	uiring urgent escalation of care, further advice or investigation	√	√	√	√		
5.	The methods to provide the c	are and support tasks, as documented in the management plan	√	√	√	√		
6.	Methods to evaluate the indiv	vidual's additional needs and coping styles	√	√	√	√		
7.	Methods to discuss treatment	t with the individual and engage and involve them in their care	√	√	√	√		
8.	Approaches to determine the self-manage care	extent to which an individual wishes and has the capability to self-monitor and	V	√	1	1		
9.	The factors that might increase management	se patients' dependence on services, and those that foster independence and self-	V	√	1	√		
10.	Indications of physical, psycho and responses if suspected	ological or sexual abuse, human trafficking or substance use, and appropriate actions	V	√	√	√		
11.	The range of reasons for non-	adherence to a management plan	√	√	√	√		
12.	Additional needs of vulnerable emergency situations	le populations in accessing and engaging with health services, including during		√	√	√		
13.	Strategies to work with an inc	dividual to move towards adherence to a management plan	√	√	√	√		
14.	The actions that the health w	orker can take to support an individual to feel empowered to make changes	$\sqrt{}$	√	√	√		
15.	Sources of information, educa	ation materials or guidance		√	√	√		
16.		ort and guide individuals across the care pathway, including through voluntary ervices and support groups, and how to access them (this may require of the management plan)		V	V	√		
17.	Health and safety measures, i	including IPC and the use and disposal of PPE	$\sqrt{}$	√	√	√		
18.	The chain of infection, the rol	e of hygiene and sanitation, and prevention of health care-associated infections	$\sqrt{}$	√	$\sqrt{}$	√		
19.	The principles of patient safet	ty and quality of care	$\sqrt{}$	√	√	√		
20.		nable behaviour change, such as motivational interviewing, cognitive behavioural cement techniques, peer support, adult learning methods, solution-focused therapy			√	√		

and goal setting

#### MANAGING END-OF-LIFE AND BEREAVEMENT CARE

Task	S	<ol> <li>Confirming information about individual health needs</li> <li>Providing care and support to the individual and their family in anticipation of, du may include:         <ul> <li>a. assistance in adapting to and coping with changes in health status and daily lif b. psychosocial and functional support</li> <li>c. personal and nursing care</li> <li>d. clinical care, such as managing pain or discomfort and withdrawal of active tre dispensing and administration of medications or therapeutics (practice activitie e. handling and moving a deceased body, including burial preparations</li> </ul> </li> <li>Monitoring an individual's response to treatment and care plans</li> <li>Ensuring that the required steps are followed following death to certify death (practice)</li> </ol>	e challen atment, i es 9–11)	iges including		
	Profile A (e.g. nursing associate professional)	<ul> <li>Providing care and support within a management plan</li> <li>Preparing a deceased body for transfer to morgue</li> <li>Providing practical tasks following death</li> </ul>				
roles	Profile B (e.g. CHW)	[Not applicable]				
Illustrative occupational roles	Profile C (e.g. nurse)  Profile D (e.g. paramedical	<ul> <li>Providing support to an individual and their family as part of the end-of-life care pa a senior health worker</li> <li>Informing families of death, including when sudden, unexplained, violent or unnat senior health worker</li> <li>Notifying the necessary organizations following death</li> <li>Providing support to an individual and their family as part of the end-of-life care pa</li> </ul>	ural, und	er the resp	ponsibili	ty of a
	practitioner)	<ul> <li>a senior health worker</li> <li>Informing families of death, including when sudden, unexplained, violent or unnate</li> <li>Notifying the necessary organizations following death</li> </ul>				ŕ
Curi	ricular content		A	В	C	D
1.	The ethical and legal aspects (including to refuse treatment			V	√	
2.	Measures to provide comfort	and pain relief to the individual	√		√	√
3.	The role of palliative care in 1	the continuum of care	√		√	√
4.	The provision of palliative ca	re relative to the care setting	√		√	√
5.	The physical and emotional s	steps involved in transitioning from life-extending to end-of-life management plans	√		√	√
6.	The factors that could affect spiritual, cultural and religio	an individual's view of dying, including their physical, emotional, psychological, us needs			V	√
7.	The psychological effects of a strategies to manage fear	a terminal prognosis and the last days of life, and internal and external coping			<b>√</b>	√
8.	Appropriate strategies to res their families, particularly in	pond to and support the emotional, spiritual and physical needs of individuals and distressing situations	√		<b>√</b>	√
9.		ensitivities, for example with regard to children and feelings of guilt, shame or ondition, for those with a partner with the same condition or prognosis and for those			V	√
10.	Indications of near death and	d death	√		$\sqrt{}$	√
11.		common disorders, conditions and symptoms associated with end of life and when ing changes in diet, appetite, decline in function and decreased quality of life			V	√
12.	The range of therapeutic opt	ions available, including practical support or psychological therapy			$\sqrt{}$	√
13.		attempt resuscitation" or "do not intubate" order	√		√	√
14.	The importance of relationsh	nips as an individual approaches the end of life	√		√	√
15.	The importance of refocusing	g attention to the family after death	√		√	√
16.	. The process, types and different expressions of loss, including bereavement, grief and mourning; the factors that could affect the different intensities and duration of grief; and when to refer				V	√
17.	Practical arrangements the f	amily will need to make following death			√	√
18.	The resources, information a	nd support available, how they might be accessed, and risks and benefits			√	√
19.	Health and safety measures,	including IPC and the use and disposal of PPE	√		√	√
20.	The chain of infection, the ro	le of hygiene and sanitation, and prevention of health care-associated infections	√		$\sqrt{}$	√

# PRACTICE ACTIVITY 16, continued

#### MANAGING END-OF-LIFE AND BEREAVEMENT CARE

21.	The principles of patient safety and quality of care		√	√	√
22.	Measures for handling a deceased body, including clinical procedures in cases of infectious diseases			√	√
23.	Physiological processes following death			√	√
24.	Local and national procedures, protocols and legal requirements			√	√

# **REPORTING NOTIFIABLE DISEASES, CONDITIONS OR EVENTS**

_							
Task	<ol> <li>Confirming information about the disease, condition or event in relation to criter</li> <li>Submitting report</li> <li>Taking action to ensure that the disease, condition or event is taken into account and facility responses</li> </ol>				gement	plans	
al roles	Profile A (e.g. nursing associate professional)	Collecting information to support reporting and surveillance					
ation	Profile B (e.g. CHW)	Collecting information to support reporting and surveillance					
ccupi	Profile C (e.g. nurse)	Reporting mandatory or voluntary notifiable diseases or events					
Illustrative occupational roles	Profile D (e.g. paramedical practitioner)						
Cur	ricular content		A	В	C	D	
1.	The role of mandatory report cause of death, and quality n	ing in infectious disease surveillance, legal certification of births and deaths and nanagement	√	√	√	√	
2.	The use of decision-making a	aids and pattern recognition	√	√	√	√	
3.	The people and actors to be I	notified of the information, including the individual		√	√	√	
4.	The criteria for mandatory ar	nd voluntary reporting of diseases, conditions and events		√	√	√	
5.	The circumstances in which a	n individual is notified, or not notified, of a report made about them			√	√	
6.	The information to be includ	ed in the report		√	√	√	
7.	International Statistical Classification of Diseases and Related Health Problems, tenth revision, and other relevant classification or notification systems $\sqrt{}$					√	
8.	The risk factors, route of transmission and clinical features of the notifiable disease				√	√	
9.	The implications for an indiv	idual's management plan or facility responses		√	√	√	

#### PROVIDING OR RECEIVING A CLINICAL PRESENTATION

Task	s	<ol> <li>Planning for the presentation (including handovers, referrals, team care planning</li> <li>Providing information about individuals</li> <li>Ensuring all people involved have a common understanding</li> <li>Transferring responsibility for care</li> </ol>	and ward	d rounds)		
Il roles	Profile A (e.g. nursing associate professional)	<ul> <li>Providing a clinical presentation about individuals within responsibility of care</li> <li>Receiving information about individuals when assuming responsibility of care</li> </ul>				
ationa	Profile B (e.g. CHW)					
ccupi	Profile C (e.g. nurse)					
Illustrative occupational roles	Profile D (e.g. paramedical practitioner)					
Curi	ricular content		A	В	C	D
1.	Features of and barriers to ef	fective communication during handover	√	√	√	√
2.	The role of effective handove	er in quality care and patient safety	√	√	√	√
3.	The purpose of the presentat	ion, including handover and referrals	√	√	√	√
4.	The role that others will be taking in the management of care			√	√	√
5.	. The factors to plan for an effective presentation, including the relevant health team, the environment and cover for clinical duties				√	√
6.		clinical presentation (including the timing, patterns and findings of subjective and individuals, the management plan, immediate next steps)	√	√	√	√

#### MOVING AND TRANSPORTING INDIVIDUALS

associate professional) or wheelchair  Profile B (e.g. CHW) [Not applicable]  Profile C (e.g. nurse) • Moving or transporting an individual using lifting techniques and mechanical or non-mechanical aids, such as hoisted to the moving or transporting an individual with complex needs, for example spinal injury or breathing support • Leading a team to move or transport an individual with complex needs, for example spinal injury or breathing support • Leading a team to move or transport an individual with complex needs, for example spinal injury or breathing support											
associate professional) or wheelchair  Profile B (e.g. CHW) [Not applicable]  Profile C (e.g. nurse)	Tasks		<ol> <li>Seeking information about an individual's needs and preferences</li> <li>Preparing the individual and necessary equipment</li> <li>Using locally available aids for moving, handling and transporting an individual</li> <li>Monitoring the individual's responses</li> </ol>								
Curricular content  1. The principles and techniques of safe moving, handling and transporting 2. Techniques for conducting an environmental or personal risk assessment 3. Methods to ensure safe environments, for example removing obstacles or avoiding wet floors, and securing oxygen supplies for the transit  4. The availability of mechanical and non-mechanical aids and equipment  5. The methods of applying immobilizing methods if suspected injury to spine or head  6. The importance of correct movement and positioning for the health and safety of both the individual to be moved and those undertaking the task  7. Methods to use equipment, such as transfer boards, stretcher, belts, hoists, slings, bathing aids or trolleys  8. Strategies and tools to give the individual the ability to ask for help, for example a bell  9. Vital signs and other indicators of adverse responses or a deterioration of health condition during the movement  10. Health and safety measures, including IPC and the use and disposal of PPE  11. The chain of infection, the role of hygiene and sanitation, and prevention of health care-associated infections  12. Appropriate strategies to respond to and support the emotional, spiritual and physical needs of individuals and	al roles		• Moving or transporting an individual using lifting techniques or non-mechanical aids, such as a hoist, transfer board or wheelchair								
Curricular content  1. The principles and techniques of safe moving, handling and transporting 2. Techniques for conducting an environmental or personal risk assessment 3. Methods to ensure safe environments, for example removing obstacles or avoiding wet floors, and securing oxygen supplies for the transit  4. The availability of mechanical and non-mechanical aids and equipment  5. The methods of applying immobilizing methods if suspected injury to spine or head  6. The importance of correct movement and positioning for the health and safety of both the individual to be moved and those undertaking the task  7. Methods to use equipment, such as transfer boards, stretcher, belts, hoists, slings, bathing aids or trolleys  8. Strategies and tools to give the individual the ability to ask for help, for example a bell  9. Vital signs and other indicators of adverse responses or a deterioration of health condition during the movement  10. Health and safety measures, including IPC and the use and disposal of PPE  11. The chain of infection, the role of hygiene and sanitation, and prevention of health care-associated infections  12. Appropriate strategies to respond to and support the emotional, spiritual and physical needs of individuals and	ationa	Profile B (e.g. CHW)	[Not applicable]								
Curricular content  1. The principles and techniques of safe moving, handling and transporting 2. Techniques for conducting an environmental or personal risk assessment 3. Methods to ensure safe environments, for example removing obstacles or avoiding wet floors, and securing oxygen supplies for the transit  4. The availability of mechanical and non-mechanical aids and equipment  5. The methods of applying immobilizing methods if suspected injury to spine or head  6. The importance of correct movement and positioning for the health and safety of both the individual to be moved and those undertaking the task  7. Methods to use equipment, such as transfer boards, stretcher, belts, hoists, slings, bathing aids or trolleys  8. Strategies and tools to give the individual the ability to ask for help, for example a bell  9. Vital signs and other indicators of adverse responses or a deterioration of health condition during the movement  10. Health and safety measures, including IPC and the use and disposal of PPE  11. The chain of infection, the role of hygiene and sanitation, and prevention of health care-associated infections  12. Appropriate strategies to respond to and support the emotional, spiritual and physical needs of individuals and	ve occupa	Profile C (e.g. nurse)	<ul> <li>Moving or transporting an individual using lifting techniques and mechanical or non-mechanical aids, such as hoists</li> <li>Moving or transporting an individual with complex needs, for example spinal injury or breathing support</li> </ul>								
1. The principles and techniques of safe moving, handling and transporting  2. Techniques for conducting an environmental or personal risk assessment  3. Methods to ensure safe environments, for example removing obstacles or avoiding wet floors, and securing oxygen supplies for the transit  4. The availability of mechanical and non-mechanical aids and equipment  5. The methods of applying immobilizing methods if suspected injury to spine or head  6. The importance of correct movement and positioning for the health and safety of both the individual to be moved and those undertaking the task  7. Methods to use equipment, such as transfer boards, stretcher, belts, hoists, slings, bathing aids or trolleys  8. Strategies and tools to give the individual the ability to ask for help, for example a bell  9. Vital signs and other indicators of adverse responses or a deterioration of health condition during the movement  10. Health and safety measures, including IPC and the use and disposal of PPE  11. The chain of infection, the role of hygiene and sanitation, and prevention of health care-associated infections  12. Appropriate strategies to respond to and support the emotional, spiritual and physical needs of individuals and	Illustrativ										
2. Techniques for conducting an environmental or personal risk assessment  3. Methods to ensure safe environments, for example removing obstacles or avoiding wet floors, and securing oxygen supplies for the transit  4. The availability of mechanical and non-mechanical aids and equipment  5. The methods of applying immobilizing methods if suspected injury to spine or head  6. The importance of correct movement and positioning for the health and safety of both the individual to be moved and those undertaking the task  7. Methods to use equipment, such as transfer boards, stretcher, belts, hoists, slings, bathing aids or trolleys  8. Strategies and tools to give the individual the ability to ask for help, for example a bell  9. Vital signs and other indicators of adverse responses or a deterioration of health condition during the movement  10. Health and safety measures, including IPC and the use and disposal of PPE  11. The chain of infection, the role of hygiene and sanitation, and prevention of health care-associated infections  12. Appropriate strategies to respond to and support the emotional, spiritual and physical needs of individuals and	Curi	Curricular content				C	D				
3. Methods to ensure safe environments, for example removing obstacles or avoiding wet floors, and securing oxygen supplies for the transit  4. The availability of mechanical and non-mechanical aids and equipment  5. The methods of applying immobilizing methods if suspected injury to spine or head  6. The importance of correct movement and positioning for the health and safety of both the individual to be moved and those undertaking the task  7. Methods to use equipment, such as transfer boards, stretcher, belts, hoists, slings, bathing aids or trolleys  8. Strategies and tools to give the individual the ability to ask for help, for example a bell  9. Vital signs and other indicators of adverse responses or a deterioration of health condition during the movement  10. Health and safety measures, including IPC and the use and disposal of PPE  11. The chain of infection, the role of hygiene and sanitation, and prevention of health care-associated infections  12. Appropriate strategies to respond to and support the emotional, spiritual and physical needs of individuals and	1.	The principles and techniques of safe moving, handling and transporting		√		√	√				
oxygen supplies for the transit  4. The availability of mechanical and non-mechanical aids and equipment  5. The methods of applying immobilizing methods if suspected injury to spine or head  6. The importance of correct movement and positioning for the health and safety of both the individual to be moved and those undertaking the task  7. Methods to use equipment, such as transfer boards, stretcher, belts, hoists, slings, bathing aids or trolleys  8. Strategies and tools to give the individual the ability to ask for help, for example a bell  9. Vital signs and other indicators of adverse responses or a deterioration of health condition during the movement  10. Health and safety measures, including IPC and the use and disposal of PPE  11. The chain of infection, the role of hygiene and sanitation, and prevention of health care-associated infections  12. Appropriate strategies to respond to and support the emotional, spiritual and physical needs of individuals and	2.	Techniques for conducting a	Techniques for conducting an environmental or personal risk assessment			√	√				
<ol> <li>The methods of applying immobilizing methods if suspected injury to spine or head</li> <li>The importance of correct movement and positioning for the health and safety of both the individual to be moved and those undertaking the task</li> <li>Methods to use equipment, such as transfer boards, stretcher, belts, hoists, slings, bathing aids or trolleys</li> <li>Strategies and tools to give the individual the ability to ask for help, for example a bell</li> <li>Vital signs and other indicators of adverse responses or a deterioration of health condition during the movement</li> <li>Health and safety measures, including IPC and the use and disposal of PPE</li> <li>The chain of infection, the role of hygiene and sanitation, and prevention of health care-associated infections</li> <li>Appropriate strategies to respond to and support the emotional, spiritual and physical needs of individuals and</li> </ol>	3.			√		√	√				
6. The importance of correct movement and positioning for the health and safety of both the individual to be moved and those undertaking the task  7. Methods to use equipment, such as transfer boards, stretcher, belts, hoists, slings, bathing aids or trolleys   8. Strategies and tools to give the individual the ability to ask for help, for example a bell   9. Vital signs and other indicators of adverse responses or a deterioration of health condition during the movement   10. Health and safety measures, including IPC and the use and disposal of PPE   11. The chain of infection, the role of hygiene and sanitation, and prevention of health care-associated infections   12. Appropriate strategies to respond to and support the emotional, spiritual and physical needs of individuals and	4.	The availability of mechanica	al and non-mechanical aids and equipment	√		√	√				
and those undertaking the task  7. Methods to use equipment, such as transfer boards, stretcher, belts, hoists, slings, bathing aids or trolleys  8. Strategies and tools to give the individual the ability to ask for help, for example a bell  9. Vital signs and other indicators of adverse responses or a deterioration of health condition during the movement  10. Health and safety measures, including IPC and the use and disposal of PPE  11. The chain of infection, the role of hygiene and sanitation, and prevention of health care-associated infections  12. Appropriate strategies to respond to and support the emotional, spiritual and physical needs of individuals and	5.	The methods of applying im	mobilizing methods if suspected injury to spine or head	√		√	√				
<ul> <li>8. Strategies and tools to give the individual the ability to ask for help, for example a bell</li> <li>9. Vital signs and other indicators of adverse responses or a deterioration of health condition during the movement</li> <li>10. Health and safety measures, including IPC and the use and disposal of PPE</li> <li>11. The chain of infection, the role of hygiene and sanitation, and prevention of health care-associated infections</li> <li>12. Appropriate strategies to respond to and support the emotional, spiritual and physical needs of individuals and</li> <li>√</li> <li>√</li></ul>	6.			√		√	√				
<ul> <li>9. Vital signs and other indicators of adverse responses or a deterioration of health condition during the movement</li></ul>	7.	Methods to use equipment,	such as transfer boards, stretcher, belts, hoists, slings, bathing aids or trolleys	√		√	√				
<ul> <li>Health and safety measures, including IPC and the use and disposal of PPE</li> <li>The chain of infection, the role of hygiene and sanitation, and prevention of health care-associated infections</li> <li>Appropriate strategies to respond to and support the emotional, spiritual and physical needs of individuals and</li> </ul>	8.	Strategies and tools to give t	he individual the ability to ask for help, for example a bell	√		√	√				
11. The chain of infection, the role of hygiene and sanitation, and prevention of health care-associated infections $\sqrt{}$ $\sqrt{}$ $\sqrt{}$ 12. Appropriate strategies to respond to and support the emotional, spiritual and physical needs of individuals and $\sqrt{}$ $\sqrt{}$	9.	Vital signs and other indicate	√		√	√					
12. Appropriate strategies to respond to and support the emotional, spiritual and physical needs of individuals and $\sqrt{}$	10.	0. Health and safety measures, including IPC and the use and disposal of PPE $\sqrt{}$					√				
	11.	The chain of infection, the ro	√		√	√					
	12.						√				

#### **COORDINATING TRANSFER TO ANOTHER CARE ENVIRONMENT**

Tasks		<ol> <li>Confirming basis for transfer</li> <li>Evaluating options for transfer</li> <li>Developing a transfer plan</li> <li>Confirming agreement of the transfer plan, and actions and responsibilities of the relevant parties involved in the transfer</li> <li>Making practical arrangements for the transfer</li> <li>Coordinating care transfer plan</li> </ol>								
Illustrative occupational roles	Profile A (e.g. nursing associate professional)	Taking action to facilitate transfer, within an existing plan								
	Profile B (e.g. CHW)	<ul> <li>Developing and coordinating transfer plan from the community</li> <li>Taking action to facilitate transfer to and from the community, within an existing plan</li> </ul>								
	Profile C (e.g. nurse)	king action to facilitate transfer, within an existing plan oactively addressing potential impediments to continuity of care								
	Profile D (e.g. paramedical practitioner)  • Evaluating need for and deciding on transfer • Developing and coordinating transfer plan between different environments • Taking an active role in enabling the transfer and proactively addressing potential impediments to continuity of care									
Curi	ricular content		A	В	C	D				
1.	The role of a transfer plan in	ensuring continuity of care before, during and after transfer	√	√	√	√				
2.	informal support networks,	es and possible destinations of care (including community services, hospitals, general practice, social services, voluntary sector, frail care, long-term care facilities, heir roles, structures and functions within the health system	√	√	√	1				
3.	The eligibility criteria for, fin	ancial considerations for, access to and availability of destinations of care		√	√	√				
4.		s cognitive status, activity level, home support, ability to obtain medications and ervices on the preferred destination of care		√	1	√				
5.	Criteria and options for evalu	ating and prioritizing referrals and transfers of care		√	√	√				
6.	The rights of care providers t situation	o refuse referrals, the reasons why this might happen, and strategies to manage the		√	1	√				
7.	Methods and strategies for d	ealing with inappropriate referrals			√	√				
8.	Logistical requirements for the transfer and for the receiving care environment, for example transportation, health workers, medications, mobility aids or adaptations		1	√	√	√				
9.	The importance of individual reassessment during movement of an individual to ensure that their condition has not deteriorated		√	√	√	√				
10.	The range of relevant stakeholders in the transfer, including all care providers involved in the individual's management plan, the individual and their support network		√	√	√	√				
11.	The importance of effective communication during care transfer to ensure patient safety and reduce duplication of care, testing or treatment		√	√	√	√				
12.	Information to be included in a transfer plan		√	√	√	√				
13.	The sequence of tasks to be completed within a transfer plan		√	√	√	√				
14.	Risks to patient safety and quality of care that may arise during transfer periods, and strategies to mitigate these		√	√	√	√				
15.	Feelings of vulnerability when transferring between care environments		√	√	√	√				
16.	i. When and how to close relationships with individuals and their support network			√	√	√				

#### **ASSESSING COMMUNITY HEALTH NEEDS**

Tasks		<ol> <li>Planning for an assessment, including obtaining necessary approvals</li> <li>Coordinating an oversight group</li> <li>Managing community engagement and participation activities</li> <li>Gathering and recording data and information</li> <li>Analysing and interpreting data and information</li> <li>Validating the findings of the assessment</li> <li>Proposing options to address the findings</li> </ol>							
Prov	ided in parallel	Reporting the findings     Managing human resources (practice activity 31)     Managing financial resources (practice activity 32)							
Illustrative occupational roles	Profile A (e.g. nursing associate professional)	<ul> <li>Supporting community engagement activities and data collection, for example administering door-to-door surveys or facilitating focus group discussions</li> <li>Recording data in predefined, limited option formats</li> <li>Providing feedback and insights based on own experience</li> </ul>							
	Profile B (e.g. CHW)	<ul> <li>Supporting community engagement activities and data collection, for example consulting community leaders or facilitating focus groups</li> <li>Collecting and organizing information about community assets, and the political, economic and cultural context</li> <li>Evaluating data and information to identify individual, organizational and community concerns, assets, resources and deficits</li> <li>Reporting back to the community</li> </ul>							
	Profile C (e.g. nurse)	<ul> <li>Managing community engagement activities, including facilitating public forums</li> <li>Developing templates for data collection</li> <li>Managing specific components of the assessment</li> <li>Representing a stakeholder perspective on an oversight group</li> <li>Evaluating the data and information and proposing hypotheses or insights that link health needs with enabling factors and barriers, and proposing possible solutions</li> <li>Writing sections of a report relating to the findings</li> <li>Communicating the findings to decision-makers and to the community</li> </ul>							
		<ul> <li>Leading the planning and coordination of the assessment</li> <li>Managing the process of validation to secure community support for the findings</li> <li>Evaluating the data and information to propose options for meeting the health needs within existing resources, and with additional resources</li> <li>Writing a report of the findings, incorporating sections drafted by others</li> <li>Communicating the findings to decision-makers and to the community</li> </ul>							
	Profile D (e.g. paramedical practitioner)	<ul> <li>Managing the process of validation to secure community support for the findings</li> <li>Evaluating the data and information to propose options for meeting the health need with additional resources</li> <li>Writing a report of the findings, incorporating sections drafted by others</li> </ul>	ds within	existing	resources	s, and			
Curi		<ul> <li>Managing the process of validation to secure community support for the findings</li> <li>Evaluating the data and information to propose options for meeting the health need with additional resources</li> <li>Writing a report of the findings, incorporating sections drafted by others</li> </ul>	ds within	existing	resources	s, and			
Curr 1.	practitioner)	Managing the process of validation to secure community support for the findings     Evaluating the data and information to propose options for meeting the health need with additional resources     Writing a report of the findings, incorporating sections drafted by others     Communicating the findings to decision-makers and to the community  compassing a population focus, community orientation, ethics, prevention, equity,							
	practitioner)  ricular content  Principles of public health er inclusion, accountability and	Managing the process of validation to secure community support for the findings     Evaluating the data and information to propose options for meeting the health need with additional resources     Writing a report of the findings, incorporating sections drafted by others     Communicating the findings to decision-makers and to the community  compassing a population focus, community orientation, ethics, prevention, equity,		В	C	D			
1.	ricular content Principles of public health er inclusion, accountability and The role of health needs asse	Managing the process of validation to secure community support for the findings     Evaluating the data and information to propose options for meeting the health need with additional resources     Writing a report of the findings, incorporating sections drafted by others     Communicating the findings to decision-makers and to the community  compassing a population focus, community orientation, ethics, prevention, equity, a social justice		<b>B</b> √	<b>C</b> √	D √			
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<ol> <li>1.</li> <li>2.</li> <li>3.</li> </ol>	ricular content  Principles of public health er inclusion, accountability and The role of health needs asse Community awareness, inclucommunity resources, emplo	Managing the process of validation to secure community support for the findings     Evaluating the data and information to propose options for meeting the health need with additional resources     Writing a report of the findings, incorporating sections drafted by others     Communicating the findings to decision-makers and to the community  compassing a population focus, community orientation, ethics, prevention, equity, a social justice  essment in public health decision-making  uding the parameters of the community (definition), the language, culture, religion, byment, housing and health facility availability	A	B √	<b>C</b> √	<b>D</b>			
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<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> </ol>	ricular content  Principles of public health er inclusion, accountability and The role of health needs asse Community awareness, inclucommunity resources, emplo The interrelationships amon Community health awareness and local epidemiology  The main components of the functions of different health	<ul> <li>Managing the process of validation to secure community support for the findings</li> <li>Evaluating the data and information to propose options for meeting the health need with additional resources</li> <li>Writing a report of the findings, incorporating sections drafted by others</li> <li>Communicating the findings to decision-makers and to the community</li> <li>Incompassing a population focus, community orientation, ethics, prevention, equity, all social justice</li> <li>Eassment in public health decision-making</li> <li>Inding the parameters of the community (definition), the language, culture, religion, by ment, housing and health facility availability</li> <li>Ing systems that influence the quality of life of people in their communities</li> <li>Including risks of potential emergencies, any recent events, outbreaks or disasters,</li> <li>Incorporation, financing and delivery of health services, and the structures and and social care facilities, units and health workers within the health system</li> <li>Initiality, acceptability and accessibility of health services and how these might vary</li> </ul>	<b>A</b> √	B √ √ √ √ √ √	<ul> <li>C</li> <li>√</li> <li>√</li> <li>√</li> <li>√</li> </ul>	<b>D</b> √  √  √  √			
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<ol> <li>1.</li> <li>2.</li> <li>3.</li> <li>4.</li> <li>5.</li> <li>6.</li> <li>7.</li> <li>8.</li> <li>9.</li> </ol>	ricular content  Principles of public health er inclusion, accountability and The role of health needs assection of the interrelationships amonto the interrelation of different health. The differences between available across different populationships amonto the interrelation of solutionships amonto the interrelation of the interrelation of solutionships amonto the interrelation of the interre	<ul> <li>Managing the process of validation to secure community support for the findings</li> <li>Evaluating the data and information to propose options for meeting the health need with additional resources</li> <li>Writing a report of the findings, incorporating sections drafted by others</li> <li>Communicating the findings to decision-makers and to the community</li> </ul> Incompassing a population focus, community orientation, ethics, prevention, equity, a social justice It is parameters of the community (definition), the language, culture, religion, poyment, housing and health facility availability It is parameters of the community of life of people in their communities It is parameters of potential emergencies, any recent events, outbreaks or disasters, It is organization, financing and delivery of health services, and the structures and and social care facilities, units and health workers within the health system It is allability, acceptability and accessibility of health services and how these might vary or settings Conomic and environmental determinants of health in both the onset of problems and and interdependencies	<b>A</b> √	B		D			
1. 2. 3. 4. 5. 6. 7. 8. 9. 10.	ricular content  Principles of public health er inclusion, accountability and The role of health needs asse.  Community awareness, inclucommunity resources, emploration of the interrelationships amon.  Community health awareness and local epidemiology  The main components of the functions of different health.  The differences between avaracross different populations.  The role of social, political, ethe creation of solutions.  The impact of global trends are the principles of participator.  Principles of programme man evaluation and governance)	<ul> <li>Managing the process of validation to secure community support for the findings</li> <li>Evaluating the data and information to propose options for meeting the health need with additional resources</li> <li>Writing a report of the findings, incorporating sections drafted by others</li> <li>Communicating the findings to decision-makers and to the community</li> </ul> Incompassing a population focus, community orientation, ethics, prevention, equity, a social justice Personant in public health decision-making Inding the parameters of the community (definition), the language, culture, religion, poyment, housing and health facility availability Incompassing a population focus, community (definition), the language, culture, religion, poyment, housing and health facility availability Incompassion the parameters of the community (definition), the language, culture, religion, poyment, housing and health facility availability Incompassion the parameters of the community (definition), the language, culture, religion, poyment, housing and health facility availability Incompassion the language, culture, religion, poyment, housing and health facility availability Incompassion the language, culture, religion, poyment, housing and health facility availability Incompassion the language, culture, religion, poyment, housing and health facility availability Incompassion the language, culture, religion, poyment, housing and health facility availability Incompassion the language, culture, religion, poyment, housing availability<	<b>A</b> √	B		<b>D</b> √ √ √ √ √ √ √ √ √ √ √ √			

# PRACTICE ACTIVITY 21, continued ASSESSING COMMUNITY HEALTH NEEDS

14.	The methods and tools for data collection and analysis using the selected approaches	$\sqrt{}$	√	√	√
15.	Collaborative and consultative tools and methods to generate, categorize and prioritize change ideas			√	√
16.	Methodologies to assess, prevent and control hazards or risks to safety during the course of data collection	$\sqrt{}$	√	√	√
17.	Basic concepts of probability, random variation and common statistical distributions			√	√
18.	Common statistical methods used to infer trends and for comparative purposes			√	√
19.	Different measurement scales and the implications for selection of statistical methodologies				√
20.	The use of information technology and basic informatics techniques			√	√
21.	Descriptive methodologies		√	√	√
22.	Methods to evaluate the strength and limitations of data			√	√
23.	Frameworks and methods to identify the unintended consequences of changes made within public health systems			√	√
24.	Risks and requirements relating to data accuracy, confidentiality and security	√	√	√	√

resources, budgets and scope

22. Local and national procedures, protocols and legal requirements

#### PLANNING AND DELIVERING COMMUNITY HEALTH PROGRAMMES

Task	s	<ol> <li>Planning for a local health programme</li> <li>Mobilization of stakeholders for engagement in the programme planning and del</li> <li>Providing actions contributing to the implementation of a community health progractivities within the individual health domain)</li> <li>Mobilization of community resources to support the health programme</li> <li>Overseeing the implementation of the programme</li> <li>Monitoring and evaluating the health programme</li> <li>Fostering community ownership</li> </ol>		(includin	g all prac	tice
roles	Profile A (e.g. nursing associate professional)	Participating in the programme (incorporating tasks from the individual health dom	nain)			
oational	Profile B (e.g. CHW)	Participating in the programme (incorporating tasks from the individual health dom     Leading specific aspects of programme delivery	nain)			
hoo	Profile C (e.g. nurse)	• Planning and participating in health education programmes in community settings				
Illustrative occupational roles	Profile D (e.g. paramedical practitioner)	<ul> <li>Managing community involvement, for example facilitating consultation events</li> <li>Mobilizing community resources to support delivery of health programme</li> <li>Engaging with key partners and stakeholders</li> <li>Leading the overall implementation of a community health programme in some circ</li> </ul>	cumstano	ces		
Cur	ricular content		A	В	C	D
1.	Principles of public health er inclusion, accountability and	ncompassing a population focus, community orientation, ethics, prevention, equity, social justice	√	√	√	√
2.		iding the parameters of the community (definition), the language, culture, religion, byment, housing and health facility availability	√	√	√	√
3.	The interrelationships amon	g systems that influence the quality of life of people in their communities				√
4.	Additional needs of vulnerab	le populations in accessing and engaging with health services	√	√	√	√
5.	The role of the programme in	n improving community health	√	√	√	√
6.	The programme drivers for c	hange (social, political, economic, scientific)	√	√	√	√
7.	Setting-based approaches to	community health, including linked to management of risks of emergencies	√	√	√	√
8.	The role of the programme v	vithin the health system, including wider national or local improvement programmes			√	√
9.	The organizational structure	s and systems, and decision-making, administrative and reporting processes			√	√
10.	Methods to identify, involve implementation and monito	and empower stakeholder groups and potential partners in programme planning, ring		√	√	1
11.	Methods to identify the risks programme	, needs, impacts, barriers and solutions relevant to the change ideas for the health			√	1
12.	Methods of incorporating sta as is practicable	skeholder feedback, and co-development and co-ownership of the programme as far		√	√	1
13.	The social and environmenta	l determinants of health in the community		√	√	√
14.	Principles of change manage	ment			√	√
15.	Barriers to the success or upt	ake of the programme		√	√	√
16.	The role of different stakehol improving the health of a co	ders (decision-makers, community organizations, private sector, families) in mmunity		√	√	√
17.	Methods to facilitate partner	ship working, such as shared goals and addressing barriers		√	√	√
18.	Methods to facilitate behavio	oural or cultural change		√	√	√
19.	The role of monitoring and e	valuation in continuous improvement		√	√	√
20.	Methods for monitoring and	evaluating change			√	√
21.	Programme management to	ols and techniques, and the importance of managing programme schedules,			√	√

#### MANAGING PUBLIC HEALTH COMMUNICATION

Task	S	<ol> <li>Assessing communication goals and priorities</li> <li>Selecting communication methods</li> <li>Developing communication content</li> <li>Creating communication materials</li> <li>Engaging others as participants in communication</li> <li>Evaluating communication activities</li> </ol>							
es	Profile A (e.g. nursing associate professional)	<ul> <li>Communicating agreed evidence-based public health information to individuals or seasons and correcting myths or falsified information in conversation with individuals contributing feedback into communication goal setting and evaluation</li> </ul>			ps				
Illustrative occupational roles	Profile B (e.g. CHW)	Managing linear communication using readily available tools, for example door to door, loudspeaker, community gathering, radio, social or text messaging, youth groups     Proactively identifying communication needs							
ative occi	Profile C (e.g. nurse)	Creating physical or social media communication materials     Managing non-linear public communication, for example at public forums or using social media							
Mustra	Profile D (e.g. paramedical practitioner)	<ul> <li>Prioritizing community communication needs and goals</li> <li>Creating linear public communication using technical tools, for example creating vid</li> <li>Evaluating the impact and timing of community communication activities</li> <li>Leading non-linear communication in public forums, such as a town hall</li> </ul>	leos						
Cur	ricular content		A	В	C	D			
1.	The purposes of communication (dissemination of evidence-based information, confirming opening hours or contact information, debunking myths, information gathering) and intended outcomes		√	√	√	√			
2.	Methods to fact-check and v	erify the content to be communicated (linear)			√	√			
3.	The role of data and informa	tics in promoting public health issues	√	√	√	√			
4.	Methods to translate comple	ex information into digestible and appropriate communication methods			√	√			
5.	Principles of public commun situation, risk communicatio	ication in different contexts, for example operational information, in an emergency n		√	√	1			
6.	The literacy of the audience, health and other information	including health literacy, social media literacy, and ability to obtain, interpret and use	√	√	√	√			
7.	The ethical and cultural cont	ext, and culturally appropriate practice, language or graphics	√	√	√	√			
8.	The influences of social, orga different communication cha	nizational and individual factors on the use of information technology and access to annels			√	1			
9.	The relevant channels and to forum meetings	ools for the communication purpose, including digital technologies, posters, open	√	√	√	√			
10.	Practical methods to use the	range of communication channels and tools	√	√	√	√			
11.	The target audience for the c	communication	√	√	√	√			
12.	Principles of planning, tailor target audiences and commu	ing and managing linear and non-linear communication with the participation of unities		√	√	√			
13.	Theoretical and strategy-bas	ed principles of communication across different settings and audiences			√	√			
14.	The impact of communication	n on comprehension, creating or dispelling myths, satisfaction and hope	√	√	√	√			
15.	The role of public health infr	astructure in collecting, processing, maintaining and disseminating information			√	√			
16.	Methods of evaluating comn			√	√				

#### DEVELOPING PREPAREDNESS FOR HEALTH EMERGENCIES AND DISASTERS, INCLUDING DISEASE OUTBREAKS

Task	S	<ol> <li>Conducting all-hazards emergency risk assessments</li> <li>Conducting activities that reduce vulnerabilities and help to prevent or mitigate e</li> <li>Participating in preparedness activities, for example communicating with commu</li> <li>Delivering, coordinating and leading preparedness activities</li> <li>Preparing resources or equipment and health products for a response</li> <li>Monitoring and interpreting health data</li> <li>Evaluating preparedness</li> <li>Contributing information for and insights into the development or review of preparecommendations for improvement</li> </ol>	nities an	d other s		ers
	Profile A (e.g. nursing associate professional)	<ul> <li>Participating in all-hazards risk assessments in a community</li> <li>Participating in preparedness activities, including learning about own role in a responsional preparedness plan</li> <li>Contributing information to the review and evaluation of preparedness based on perparedness base</li></ul>		«perience		
roles	Profile B (e.g. CHW)	<ul> <li>Participating in all-hazards risk assessments in a community</li> <li>Engaging the community in risk prevention and preparedness activities, such as edu</li> <li>Contributing information to the review and evaluation of preparedness based on fee</li> </ul>				ion
Illustrative occupational roles	Profile C (e.g. nurse)	<ul> <li>Conducting all-hazards emergency risk assessments at facility level</li> <li>Determining the need for facility-level preparedness activities</li> <li>Organizing and delivering preparedness activities for teams or units, such as risk ass tabletop exercises</li> <li>Preparing resources or equipment and health products for a response</li> <li>Evaluating team preparedness</li> <li>Identifying lessons from past events to improve risk prevention and preparedness for</li> </ul>				ng and
	Profile D (e.g. paramedical practitioner)	<ul> <li>Conducting all-hazards emergency risk assessments at facility or community level</li> <li>Determining the need for facility- or community-level preparedness activities</li> <li>Organizing and delivering facility- or community-level preparedness activities, incluexercises</li> <li>Evaluating facility- or community-level preparedness</li> <li>Identifying recommendations from reviews to improve risk prevention and prepared</li> </ul>	J	·		
Curi	ricular content		A	В	C	D
1.	The all-hazards risk assessme emerging priority risks	ent process to enable communities to identify, analyse and determine current and	√	√	√	√
2.		multisectoral and multi-hazard response plans for health emergencies (including s triggered by natural, technological or societal hazards) and mass casualty events, role and workplace	√	√	√	√
3.		ach to emergencies to reduce hazards, exposures and vulnerabilities and build evention, mitigation, preparedness, response and recovery (that is, phases of the national)	√	√	√	√
4.		ks and warnings, and mechanisms of internal and public communication with preparedness, response and recovery	√	√	√	√
5.	and scaling up into emergen and malnutrition; key family	e and services that help to reduce vulnerabilities and prevent events from occurring cies, for example management of common illnesses such as diarrhoea, common cold practices, for example exclusive breastfeeding, hygiene, childhood immunizations vention and management of communicable and noncommunicable diseases; and	√	√	√	√
6.	Methods for all-hazards risk risks of emergencies and disa	monitoring, detection, prevention, mitigation, preparedness and response to manage asters	√	√	√	√
7.	Elements of effective, inclusi emergencies and disasters	ve and community-centred prevention, mitigation, preparedness, and response to	√	√	√	√
8.	Key steps for developing plan facility	ns for emergency preparedness and response for the community, organization or	√	√	√	√
9.	Critical event self and scene	safety, IPC, and the use and disposal of PPE	√	√	√	√
10.		actions to respond to or mitigate the effects of the events			√	√
11.		ipment, logistics and protocol requirements for different response strategies			√	√
12.	Health data for prevention, p	oreparedness, response and recovery, data sources and methods to interpret data			√	√

#### PRACTICE ACTIVITY 24, continued

#### DEVELOPING PREPAREDNESS FOR HEALTH EMERGENCIES AND DISASTERS, INCLUDING DISEASE OUTBREAKS

14.	Community awareness, including language, culture, faith and socioeconomic dimensions and catchment; provider organizations, networks and support groups for health services, employment, housing, food, water, sanitation, and hygiene; other nongovernmental organizations; and the interdependencies and relationships among systems that may be impacted		√	√	√
15.	The projected impacts of emergencies on communities, displaced populations, health system functioning, shelter, food, water, different stakeholder groups, and specific populations with higher levels of vulnerability		√	√	√
16.	Methods to identify specific populations in the community who face higher risks of emergencies due to their increased vulnerability (for example, income levels and poverty, gender, age, people with disabilities, people with underlying health conditions, migrants, displaced persons)			√	√
17.	Methods for community education, awareness raising and community participation in emergency prevention, preparedness and response		√	√	√
18.	Indicators for measuring risks, risk management capacities, inputs, outputs and outcomes related to risk prevention, and preparedness for and response to disease outbreaks and other emergencies and disasters		√	√	√
19.	Mechanisms to contribute to disease surveillance systems and to alert authorities and communities if an outbreak or emergency situation is suspected or anticipated	√	√	√	√
20.	The range and scale of incidents that can be managed locally, those where external resources or alerts are needed, and the procedures for requesting and receiving assistance			√	√
21.	The tasks that may be part of the role of the health worker during a response, for example disaster and emergency triage, IPC, decontamination, contact tracing, isolation, mass casualty management, injury management, management of large numbers of deceased, psychosocial support and environmental health	1	√	√	√
22.	Protocols that apply in the response and how they differ from normal practice, for example mass casualty triage, repurposing of facility spaces and case management	√	√	√	√
23.	The effect of health emergencies and disasters on the health and well-being of individuals, communities and health workers, and the range of support tools and services available	1	√	√	√
24.	The health services to be maintained alongside the emergency response (with reference to essential health services and interdependencies with other sectors and service providers, for example water, power, transport and supplies), including repurposing and reprioritization	√	√	√	√
25.	Methods of monitoring, evaluating, testing and improving levels of preparedness and plans, including drills, tabletop exercises, field exercises and other simulations		√	√	√
26.	The role of training to strengthen competencies within the context of prevention, preparedness, response and recovery	√	√	√	√
27.	Own roles and responsibilities and those of other health actors and sectors in relation to different prevention, preparedness, response and recovery strategies	√	√	√	√
28.	Principles of collaborative practice within prevention, preparedness, response and recovery, including task sharing, coordination within the health sector and between sectors at local level, and teamwork	1	√	√	√
29.	Legal requirements during a response, local regulations and subnational and national legislation, the International Health Regulations Monitoring Framework and international human rights			√	√
30.	The terminology and abbreviations relating to emergencies and disasters, including disease outbreaks	√	√	√	√

#### RESPONDING TO HEALTH EMERGENCIES AND DISASTERS, INCLUDING DISEASE OUTBREAKS

Task										
	S	<ol> <li>Monitoring for and interpreting indications of outbreaks, emergencies or disasters</li> <li>Alerting relevant emergency, disaster and disease outbreak management stakehol other sectors</li> <li>Communicating with communities, the health workforce and stakeholders</li> <li>Leading and coordinating a local response, including assessments of needs and im</li> <li>Reviewing and adapting the local response approach in light of the evolving situat external policy decisions and action plans</li> <li>Preparing and organizing resources and supplies</li> <li>Setting up and managing physical spaces for the response</li> <li>Performing emergency first aid (practice activities from the individual health dom</li> <li>Providing health services for emergency response, for example contact tracing, triamanagement</li> <li>Monitoring, evaluating and reporting on the response</li> <li>Taking action to correct the course of response</li> <li>Running post-response evaluation and reflection exercises</li> <li>Developing recovery plans</li> </ol>	pacts tion, and	l emergin	ng nation	al or				
	Profile A (e.g. nursing associate professional)	<ul> <li>Monitoring for indications and alerts of potential disease outbreaks or emergencies</li> <li>Performing allocated emergency response-related tasks and duties as part of the respreliminary triage (walking, non-walking)</li> <li>Contributing to reporting on health impacts and needs, resources and progress of the</li> </ul>	•		example					
Illustrative occupational roles	Profile B (e.g. CHW)									
Illustrative	Profile C (e.g. nurse)	<ul> <li>Coordinating a health unit response within a broader response strategy</li> <li>Running debriefing and reflection exercises on the response</li> <li>Setting up additional physical spaces and creating new spaces for health care</li> <li>Providing reports on health impact and needs, resources and progress of the response</li> </ul>								
	Profile D (e.g. paramedical practitioner)	<ul> <li>Leading the facility- or community-level emergency response</li> <li>Performing clinical triage and assigning priorities to individual cases</li> <li>Providing reports on health impact and needs, resources and progress of the response</li> </ul>								
Curi	ricular content		A	В	C	D				
1.		al and multi-hazard response plans for health emergencies (including disease red by natural, technological or societal hazards) and mass casualty events, and how vorkplace	√	√	√	√				
			√	√	√	√				
2.		onse plan, for example rapid needs assessment, evacuation, health care services, other ssistance (for example humanitarian), access to resources, logistics management, and rehabilitation	·							
2.	essential services, external a security, timelines, recovery	ssistance (for example humanitarian), access to resources, logistics management,	√	√	√	√				
	essential services, external a security, timelines, recovery Risks, impacts and indicators Mechanisms to contribute to	ssistance (for example humanitarian), access to resources, logistics management, and rehabilitation		√ √	√ √	√ √				
3.	essential services, external a security, timelines, recovery Risks, impacts and indicators Mechanisms to contribute to emergency or disaster situat The range and scale of incide	ssistance (for example humanitarian), access to resources, logistics management, and rehabilitation s of outbreaks and emergency and disaster situations disease surveillance systems and to alert authorities and communities if an outbreak,	√							
3.	essential services, external a security, timelines, recovery Risks, impacts and indicators Mechanisms to contribute to emergency or disaster situat The range and scale of incide needed, and the procedures	ssistance (for example humanitarian), access to resources, logistics management, and rehabilitation s of outbreaks and emergency and disaster situations disease surveillance systems and to alert authorities and communities if an outbreak, ion is suspected or anticipated ents that can be managed locally and those where external resources or alerts are	√		√	√				
<ul><li>3.</li><li>4.</li><li>5.</li></ul>	essential services, external a security, timelines, recovery Risks, impacts and indicators Mechanisms to contribute to emergency or disaster situat The range and scale of incidenceded, and the procedures The range of strategies and a	ssistance (for example humanitarian), access to resources, logistics management, and rehabilitation s of outbreaks and emergency and disaster situations disease surveillance systems and to alert authorities and communities if an outbreak, ion is suspected or anticipated ents that can be managed locally and those where external resources or alerts are for requesting and receiving assistance	√		√ √	√ √				
<ul><li>3.</li><li>4.</li><li>5.</li><li>6.</li></ul>	essential services, external a security, timelines, recovery Risks, impacts and indicators Mechanisms to contribute to emergency or disaster situat The range and scale of incide needed, and the procedures The range of strategies and a Mapping of resources, includ (stakeholder analysis) The health services to be ma	ssistance (for example humanitarian), access to resources, logistics management, and rehabilitation  of outbreaks and emergency and disaster situations  disease surveillance systems and to alert authorities and communities if an outbreak, ion is suspected or anticipated  ents that can be managed locally and those where external resources or alerts are for requesting and receiving assistance  actions to respond to or mitigate the effects of the events and deployment protocol ling the local, national and international organizations and personnel in the local area intained alongside the emergency response (with reference to essential health ries with other sectors and service providers, for example water, power, transport and	√		√ √ √	√ √ √				
3. 4. 5. 6. 7.	essential services, external a security, timelines, recovery Risks, impacts and indicators Mechanisms to contribute to emergency or disaster situat. The range and scale of incide needed, and the procedures. The range of strategies and a Mapping of resources, including stakeholder analysis. The health services to be mas services and interdependence supplies), including repurpose	ssistance (for example humanitarian), access to resources, logistics management, and rehabilitation  of outbreaks and emergency and disaster situations  disease surveillance systems and to alert authorities and communities if an outbreak, ion is suspected or anticipated  ents that can be managed locally and those where external resources or alerts are for requesting and receiving assistance  actions to respond to or mitigate the effects of the events and deployment protocol ling the local, national and international organizations and personnel in the local area intained alongside the emergency response (with reference to essential health ries with other sectors and service providers, for example water, power, transport and	√ √	√	√	√ √ √				
3. 4. 5. 6. 7.	essential services, external a security, timelines, recovery Risks, impacts and indicators Mechanisms to contribute to emergency or disaster situat The range and scale of incide needed, and the procedures The range of strategies and a Mapping of resources, includ (stakeholder analysis) The health services to be maservices and interdependence supplies), including repurpose Methods for community enge	ssistance (for example humanitarian), access to resources, logistics management, and rehabilitation  of outbreaks and emergency and disaster situations  disease surveillance systems and to alert authorities and communities if an outbreak, ion is suspected or anticipated  ents that can be managed locally and those where external resources or alerts are for requesting and receiving assistance  actions to respond to or mitigate the effects of the events and deployment protocol ling the local, national and international organizations and personnel in the local area intained alongside the emergency response (with reference to essential health ries with other sectors and service providers, for example water, power, transport and sing and reprioritization	√ √ √	√ √ √	\frac{1}{\sqrt{1}}	√				
3. 4. 5. 6. 7. 8.	essential services, external a security, timelines, recovery Risks, impacts and indicators Mechanisms to contribute to emergency or disaster situat. The range and scale of incide needed, and the procedures. The range of strategies and a Mapping of resources, includ (stakeholder analysis)  The health services to be maservices and interdependence supplies), including repurpose Methods for community engent External sources of informationiginating from government linternal and external sources.	ssistance (for example humanitarian), access to resources, logistics management, and rehabilitation  of outbreaks and emergency and disaster situations  disease surveillance systems and to alert authorities and communities if an outbreak, ion is suspected or anticipated  ents that can be managed locally and those where external resources or alerts are for requesting and receiving assistance  actions to respond to or mitigate the effects of the events and deployment protocol ling the local, national and international organizations and personnel in the local area intained alongside the emergency response (with reference to essential health ries with other sectors and service providers, for example water, power, transport and sing and reprioritization agement and risk communication in emergency response and recovery ion about local and subnational response plans and external guidance (including that	√ √ √	√ √ √	\frac{1}{\sqrt{1}}	√				

#### PRACTICE ACTIVITY 25, continued

#### RESPONDING TO HEALTH EMERGENCIES AND DISASTERS, INCLUDING DISEASE OUTBREAKS

13.	Access to surge human, financial and material resources during emergencies		V		√
14.	Own roles and responsibilities and those of other health actors and sectors in relation to different prevention, preparedness, response and recovery strategies	√	√ √	√	√ √
15.	Principles of collaborative practice within prevention, preparedness, response and recovery, including task sharing, coordination within the health sector and between sectors at the local level, and teamwork	√	√	√	1
16.	Knowledge and skills for own responsibilities as part of the response, including clinical roles	√	√	√	√
17.	Principles and practices of first aid, disaster and emergency triage, IPC, decontamination, hygiene and sanitation, prevention of health care-associated infections, contact tracing, isolation, critical event self and scene safety, mass casualty management, injury management, basic life support, management of large numbers of deceased, psychosocial support and environmental health	V	√	√	√
18.	Protocols that apply in the response and how they differ from normal practice, for example mass casualty triage, repurposing of facility spaces and case management	V	√	√	√
19.	The effect of health emergencies and disasters on the health and well-being of individuals, communities, and health workers, and the range of support tools and services available	V	√	√	√
20.	Ethical considerations involved in decision-making during an emergency response	√	√	√	√
21.	Essential elements of the response, including clinical and non-clinical actions to be performed	√	√	√	√
22.	The personnel, equipment, supplies and logistics management needed for the essential elements of the response			√	√
23.	Factors involved in organizing physical spaces for health care and management functions, including crowd control, signage, transfer of existing patients, electricity and medical supplies	$\sqrt{}$	√	√	√
24.	The options to mitigate or manage the impacts of emergencies on health system functioning, shelter, food, water, different stakeholder groups and specific vulnerable populations		√	√	√
25.	Strategies for local health and health intersectoral coordination and collaboration			√	√
26.	The principles of transparency, collaboration and governance in sectoral and intersectoral responses to outbreaks, emergencies and disasters			√	√
27.	Mechanisms for regular reporting on emergency situations, health impacts, evolving needs, resources, response actions, progress and corrective actions	V	√	√	√
28.	Procedures and approaches for conducting post-response reflection and review exercises, and capturing lessons and recommendations for improving prevention, preparedness, response and recovery			√	√
29.	Methods for developing recovery plans, including rehabilitation services and recovery, applying the "build back better" principle		√	√	√
30.	The terminology and abbreviations relating to emergencies and disasters, including disease outbreaks	√	√	√	√

#### **ADVOCACY FOR COMMUNITY HEALTH NEEDS**

11. Methods of monitoring and evaluation

Task	S	<ol> <li>Identifying opportunities to improve community health through advocacy</li> <li>Developing the advocacy strategy</li> <li>Confirming the goals of advocacy</li> <li>Identifying key stakeholders, including community and interest groups, traditiona</li> <li>Planning the advocacy activities</li> <li>Mobilizing the community to sustain action and impact</li> <li>Implementing the advocacy activities</li> <li>Monitoring and evaluating advocacy activities and impact</li> </ol>	l leaders	and deci	sion-ma	kers			
S	Profile A (e.g. nursing associate professional)	<ul> <li>Identifying opportunities for advocacy activities</li> <li>Representing community views, for example through writing</li> </ul>							
Illustrative occupational roles	Profile B (e.g. CHW) • Representing community views through writing or personal engagement								
	Profile C (e.g. nurse)	<ul> <li>Coordinating a health unit response within a broader response strategy</li> <li>Running debriefing and reflection exercises on the response</li> <li>Setting up additional physical spaces and creating new spaces for health care</li> <li>Providing reports on health impact and needs, resources and progress of the response</li> </ul>	se						
Illustrati	Profile D (e.g. paramedical practitioner)	<ul> <li>Developing the advocacy strategy</li> <li>Representing community views on a decision-making group</li> <li>Implementing the advocacy strategy</li> <li>Monitoring and evaluation</li> </ul>							
Cur	ricular content		A	В	C	D			
1.	The context related to health	needs and the range of possible solutions	√	√	√	√			
2.	Local, regional and national	policy-making processes		√	√	√			
3.	The values or agendas of the	target audience for the advocacy activities		√	√	√			
4.		s of different stakeholders in the issue, including governmental and nongovernmental h centres, community members and health workers, in providing programmes and		√	√	√			
5.	Advocacy tools, techniques a	nd strategies	√	√	√	√			
6.	Mechanisms to support othe	rs to articulate their needs		√	√	√			
7.	Methods of stakeholder anal	ysis			√	√			
8.	Techniques for community e	ngagement and collaboration		√	√	√			
9.	Decision-makers, their priori intervention points	ties and values, their governance, authority and resources, and the timing of any		√	√	√			
10.	Availability of resources			√	√	√			

#### **ACCESSING AND DOCUMENTING INFORMATION**

Tasks	5									
	Profile A (e.g. nursing associate professional)	<ul> <li>Recording and coding subjective and objective clinical information within role and r</li> <li>Completing incident reports</li> <li>Recording and coding standard non-clinical information, for example resource use of existing templates</li> <li>Accessing, synthesizing and interpreting information recorded by others, taking step errors</li> </ul>	or binary	survey re		-				
ional roles	Profile B (e.g. CHW)	<ul> <li>Recording and coding subjective and objective clinical information within role and responsibility</li> <li>Recording and coding information about more complex clinical encounters where a support role was taken, under the responsibility of a senior health worker</li> <li>Recording and coding narrative information, for example from discussion groups or consultation exercises</li> <li>Completing incident reports</li> <li>Accessing, synthesizing and interpreting information recorded by others, taking steps to query and correct potential errors</li> </ul>								
Illustrative occupational roles	Profile C (e.g. nurse)	<ul> <li>Recording and coding subjective and objective clinical information</li> <li>Completing incident reports</li> <li>Documenting information relating to multisectoral or team decisions, for example for transfers of care</li> <li>Accessing, synthesizing and interpreting information recorded by others, taking steps to query and correct potential errors</li> <li>Preparing prescriptions, birth or death certificates, and other legal documentation to be issued by a senior health worker</li> <li>Developing coding structures for recording non-binary information, such as themes of feedback</li> </ul>								
	Profile D (e.g. paramedical practitioner)  • Recording and coding subjective and objective clinical information • Completing incident reports • Accessing, synthesizing and interpreting information recorded by others, taking steps to query and correct potential errors • Verifying and signing off information recorded by others • Issuing prescriptions, death certificates and other legal documents, under the supervision of a senior health worker • Developing information management or classification systems									
Curr	icular content		A	В	C	D				
1.	The role of accurate, compred care	hensive and accessible health information for quality health care and continuity of	√	√	√	√				
2.	The principles of information	and digital literacy	√	√	√	√				
3.	The available digital or hard when systems do not work	copy information management systems, and methods to continue documentation	√	√	V	1				
4.		d legal requirements for accessing and documenting information	√	√	√	√				
5.	The information to be record	ed, the format to record it, and how it will be accessed and used by others	√	√	√	√				
6.	Mechanisms to access information				√	√				
7.	The risks to health of data in	accuracies	√	√	√	√				
8.	Reasonable and valid data ra	inges for data being accessed		√	√	√				
9.	Methods to validate the qual	ity of information recorded by self and others	√	√	√	√				
10.	The principles of information individuals, populations and	security, confidentiality, ethics and patient safety as they relate to information about health systems	√	√	√	√				

#### **REGISTERING INDIVIDUALS FOR HEALTH SERVICES**

Tasks	5								
	Profile A (e.g. nursing associate professional)	<ul> <li>Registering individuals who self-present</li> <li>Gathering information about an individual's immediate health needs</li> </ul>							
Illustrative occupational roles	Profile B (e.g. CHW)	<ul> <li>Registering individuals who self-present</li> <li>Engaging with members of the community to encourage them to register, including outreach visits and contact tracing</li> <li>Gathering information about an individual's immediate health needs</li> </ul>							
	Profile C (e.g. nurse)	<ul> <li>Engaging with members of the community to encourage them to register, including outreach visits and partner tracing</li> <li>Making decisions about priority based on clinical presentation</li> </ul>							
n	Profile D (e.g. paramedical practitioner)  Coordinating the admission process when managed by others Conducting a triage assessment of multiple individuals Making decisions about priority based on clinical presentation								
Curr	icular content		A	В	C	D			
1.	Processes and protocols for r	egistration, admission and referral	√	√	√	√			
2.	The role of health service reg	istration in improving quality of care, patient flow, and use of resources	√	√	√	√			
3.	The range of health matters services within the health sy	that can be managed across the continuum of care by different health facilities and stem	√	√	√	√			
4.	Information to share with th	e individual to support them to register for health services	√	√	√	√			
5.	The information to be gathe	red and recorded about the individual and their health needs	√	√	√	√			
6.	Methods of managing situat	ions where information about the individual is unknown		√	√	√			
7.	Barriers to individuals in according to payment or insurance	Barriers to individuals in accessing health services, including costs, determinants of health, geography and access				√			
8.	Criteria for initial triage			√	√	√			
9.	Criteria for prioritization bas	ed on clinical presentation		√	√	√			

#### **DELIVERING QUALITY IMPROVEMENT ACTIVITIES**

Tasks		<ol> <li>Gathering and analysing data and feedback</li> <li>Identifying improvement opportunities</li> <li>Establishing goals and reasons for change</li> <li>Identifying solutions</li> <li>Developing measures of change and impact</li> <li>Planning for change</li> <li>Engaging with others</li> <li>Communicating change</li> <li>Implementing and monitoring change</li> <li>Evaluating impact</li> <li>Sharing learning</li> <li>Supporting the scale-up of sustained improvements</li> </ol>								
nal roles	Profile A (e.g. nursing associate professional)	<ul> <li>Implementing continuous quality improvement activities</li> <li>Proposing ideas for improvement in own practice, which may extend to the work of</li> <li>Acting as quality improvement focal person at community level, in some circumstar</li> </ul>	others			es				
ation	Profile B (e.g. CHW)		-							
e occup	Profile C (e.g. nurse)	<ul> <li>Contributing to planning, implementing or monitoring continuous quality improver</li> <li>Acting as continuous quality improvement focal person at facility or community level</li> </ul>			stances					
Illustrative occupational roles	Profile D (e.g. paramedical practitioner)									
Curr	rricular content			В	C	D				
1.	Concepts and principles of quintegration, equity and effici	√	√	√	√					
2.	The role of quality improvem	nent in improving health and strengthening health systems	√	√	√	√				
3.	The principles of successful c change	hange management, including piloting, implementing, scaling up and sustaining			√	√				
4.	The evidence base and the o	rganizational structures, systems and pathways relevant to the area for improvement			√	√				
5.	Strategies for quality improv	ement			√	√				
6.	Relevant national or local im	provement programmes, strategies, policies and standards			√	√				
7.	Methods of root cause analys	sis				√				
8.	housing, food, water, sanitat	relates to the catchment for health services, language, culture, religion, employment, ion and hygiene; the role of other nongovernmental organizations and support iship among systems that may be impacted			√	√				
9.	Methods to collect and store	data and information	√	√	√	√				
10.	Methods to analyse and inte	rpret data and information			√	√				
11.	Collaborative and consultative	ve tools and methods for generating, categorizing and prioritizing change ideas			√	√				
12.	Methods of identifying, enga	nging with and empowering stakeholders	√	√	√	√				
13.	The role of stakeholder persp	pectives, buy-in and feedback in implementing sustainable change	√	√	√	√				
14.	Project management metho	dologies			√	√				
15.	Methods for developing and	interpreting measures and indicators for monitoring, evaluation and impact			√	√				
16.	Principles of teamwork for co	ontinuous quality improvement	√	√	√	√				
17.	Principles of leadership for co	ontinuous quality improvement			√	√				

#### PROVIDING WORKPLACE-BASED LEARNING AND SUPERVISION

Tasks	5	<ol> <li>Planning for workplace-based educational activities</li> <li>Providing formal or informal learning opportunities, including feedback on performance in providing managerial supervision</li> <li>Assessing workplace-based performance (formative and summative assessments</li> <li>Making decisions on workplace performance and progression</li> <li>Recording and reporting performance</li> <li>Participating in educator training, quality assurance and peer review activities</li> </ol>								
	Profile A (e.g. nursing associate professional)	<ul> <li>Providing predominantly informal learning opportunities, including supervision and</li> <li>Providing supportive supervision, including managing poor performance and acknowledges.</li> </ul>			erforman	ce				
	Profile B (e.g. CHW)	Providing predominantly informal learning opportunities, including peer support and feedback Providing supportive supervision, including managing poor performance and acknowledging good performance								
Illustrative occupational roles	Profile C (e.g. nurse)	<ul> <li>Providing workplace-based educational activities, including demonstration, monitoring, supervision, case-based discussions, facilitated group work and providing feedback</li> <li>Providing learning opportunities for colleagues, including supervision, reflective case-based discussions, peer review and feedback</li> <li>Assessing workplace-based performance (formative and summative assessments)</li> <li>Providing supportive supervision, including managing poor performance and acknowledging good performance</li> </ul>								
Illustra	Profile D (e.g. paramedical practitioner)	<ul> <li>Providing workplace-based educational activities, including demonstration, monitor discussions, facilitated group work and providing feedback</li> <li>Providing learning opportunities for colleagues, including supervision, reflective case and feedback</li> <li>Assessing workplace-based performance (formative and summative assessments)</li> <li>Providing supportive supervision, including managing poor performance and acknowledges.</li> </ul>	se-based	discussio	ons, peer	review				
Curr	icular content	A	В	C	D					
1.	The role and objectives of mo	entoring, supervision and formal line management	√	√	1	√				
2.	Learning outcomes and stan		√	√	√	√				
3.		e, role and responsibility, competence and expected performance standards	1	√	1	√				
4.		and training requirements, if part of a training programme	√	√	√ √	√				
5.	Responsibilities as a trainer of		1	1	1	√				
6.		ormance management, supervision, delegation, and accountability, and the grounds work of others (patient safety, quality and guidance) from a position of authority	√	√	√	√				
7.	Tools, techniques and metho observation, supervision and	ds for workplace-based education and training, including demonstration, I feedback			√	√				
8.	Appropriate tasks for learner	observation or supervised practice			√	√				
9.	Principles of learning and tra engagement	ining in clinical settings, including duty of care, patient privacy, consent and			√	√				
10.	Strategies to ensure quality a	and safety in clinical practice whilst providing learning opportunities			√	√				
11.	The standards for and methowhistleblowing	ds to ensure safe working conditions, including managing sexual harassment and	√	√	√	√				
12.	The implications of training required	for the resources for provision of care, for example the longer time or resources			√	√				
13.	Principles of adult learning t	heories, competency-based education and training, and proficiency			√	√				
14.	Pre-agreed standards and pr decisions	ocesses for formative and summative assessment and the implications of pass or fail			√	√				
15.	Methods to make and record	judgements on assessment of performance			√	√				
16.	Support strategies and techr	iques, including supervision, mentoring and coaching	√	√	√	√				
17.	Potential barriers to the lear	otential barriers to the learning progress of individuals, and methods to adapt training to overcome these $\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{\sqrt{$								

#### **MANAGING HUMAN RESOURCES**

Tasks	;	<ol> <li>Identifying issues affecting the performance of health workers</li> <li>Managing the performance of health workers</li> <li>Planning for in-service training and career progression</li> <li>Coordinating the work of others, for example through scheduling</li> <li>Estimating workforce needs</li> <li>Taking action to ensure the safety and well-being in the workplace for self and ot</li> <li>Enforcing adherence to legal regulations and protocols</li> </ol>	hers								
	Profile A (e.g. nursing associate professional)										
Illustrative occupational roles	Profile B (e.g. CHW)	Monitoring workplace safety, identifying and reporting hazards									
	Profile C (e.g. nurse)	Profile C (e.g. nurse)  • Coordinating the work of other health workers • Supporting others to identify their learning needs • Leading shift- or unit-based teams • Managing timetables or schedules									
Illustrativ	Profile D (e.g. paramedical practitioner)	<ul> <li>Coordinating the work of health workers in multidisciplinary or intersectoral teams</li> <li>Providing supportive supervision, including managing poor performance and acknown</li> <li>Setting targets for work performance</li> <li>Conducting formal feedback sessions</li> <li>Maintaining oversight of personnel adherence with regulations, safety and protoco</li> </ul>	owledgin	g good pe	erforman	ce					
Curr	Curricular content				C	D					
1.	The roles and objectives of th	ne team	√	√	√	√					
2.	The role and objectives of me	entoring, supervision and formal line management			√	√					
3.	The scopes of practice, respo	nsibilities and performance standards for health workers within responsibility	√	√	√	√					
4.		ormance management, supervision, delegation, accountability and the grounds on ork of others (patient safety, quality and guidance)			√	√					
5.	Strategies to empower and s	upport others to do their work			√	√					
6.	individuals' strengths and m	individual and team working, including role clarification, supervision, competencies, otivations, access to resources, safe working environment, feedback, celebrating ontributions, and supporting others during times of difficulty	√	√	√	√					
7.	Tools for estimating workfor	ce resources, for example the workload indicators for staffing needs			√	√					
8.	Principles of team dynamics	and effective team functioning	√	√	√	√					
9.	Principles of different manage	gement and leadership styles			√	√					
10.	Strategies to motivate, enga	ge, remediate poor performance and acknowledge good performance			√	√					
11.	The standards for, and methowhistleblowing	ods to ensure, safe working conditions, including managing sexual harassment and	√	√	√	√					
12.	Availability of training and d	evelopment opportunities	√	√	√	√					
13.	Methods for alerting and ma	naging issues of workplace safety			√	√					
14.	Approaches to timetabling a	nd coordinating scarce resources	√	√	√	√					

#### **MANAGING FINANCIAL RESOURCES**

Tasks	ş	<ol> <li>Managing an allocated budget</li> <li>Keeping financial records</li> <li>Coding and billing for health services provided</li> <li>Processing payments</li> <li>Accessing financial resources in exceptional circumstances</li> </ol>				
	Profile A (e.g. nursing associate professional)	Recording and coding health services for the purposes of billing     Keeping basic financial records				
səlo.	Profile B (e.g. CHW)					
ational r	Profile C (e.g. nurse)	Managing a programme budget     Keeping financial records				
Illustrative occupational roles	Profile D (e.g. paramedical practitioner)  Billing for health services Paying invoices for goods and services Managing a small cash float for specified low-cost purchases or charges Paying operational costs, including salaries and rent Managing a facility budget Preparing financial records for accounting or audit purposes Making decisions on resource rationalization					
Curr	icular content		A	В	C	D
1.	Money handling		√	√	√	√
2.	Mechanisms of payment and	l cost recovery for health services				√
3.	Tools and methods for coding	g, billing, chart review and plan documentation			√	√
4.	The use of health service coding data for billing and funding, and for other resource planning and modelling purposes, including quality management				√	√
5.	Methods for ensuring accura	cy in coding of health services			√	√
6.	The importance of keeping a	ccurate financial records	√	√	√	√
7.	Types of fraudulent activities	5	√	√	√	√
8.	Methods for identifying, investigating and addressing fraudulent activities				√	√
9.	Tools and methods for proces	ssing payments				√
10.	Principles of budget manage	ement			√	√
11.	Principles of cash manageme	ent	√	√	√	√
12.	Access to financial resources	in exceptional circumstances (contingency funding)				√

#### **MANAGING PHYSICAL RESOURCES**

Task	S	<ol> <li>Using and storing equipment, facilities, medications and supplies</li> <li>Accounting for equipment and supplies after use</li> <li>Cleaning and maintaining equipment and facilities</li> <li>Checking equipment and facilities are in safe working condition, including calibrat expired medications</li> <li>Managing the suspension, repair or replacement of faulty equipment</li> <li>Stock control and ordering of medications, medical sundries, medical equipment a</li> <li>Rationalizing use of resources</li> </ol>					
ational roles	Profile A (e.g. nursing associate professional)  Profile B (e.g. CHW)  Profile B (e.g. CHW)  - Checking and calibrating equipment - Returning equipment to storage in correct condition, or taking action to ensure that equipment is checked and cleaned prior to storing - Identifying and reporting malfunctioning equipment or out-of-date supplies - Completing audits of resource use - Maintaining equipment inventory - Completing periodic safety checks and issuing labels and instructions for use - Cleaning and sterilizing equipment				I		
Illustrative occupational roles	Profile C (e.g. nurse)	Profile C (e.g. nurse)  Preparing equipment for use by others  Making planning decisions on the use of physical resources and scheduling  Ordering repairs of malfunctioning medical and non-medical equipment  Stock control and (re)ordering supplies of medications, medical sundries, medical equipment and non-medical equipment					
	Profile D (e.g. paramedical practitioner)						
Curr	icular content		A	В	C	D	
1.	The use of equipment, facilit interventions within scope	ies, accessories and supplies, including correct and incorrect methods of use, for	1	√	√	√	
2.	Methods for recording use of	equipment, facilities and supplies (for example booking requests, logging use)	$\sqrt{}$	√	√	√	
3.	The frequency and use of equinformation to incorporate w	uipment, facilities and supplies by the team or other health personnel, and other rhen forecasting			√	√	
4.	Information that users of equof use	uipment and facilities need to know, including safety measures and correct methods	√	√	√	√	
5.	Methods of stock control and within scope	l ordering for medications, medical sundries and medical and non-medical equipment	$\sqrt{}$	√	√	√	
6.	Requirements for safe storag	e, including temperature and date	$\sqrt{}$	√	√	√	
7.	Methods and resources for cl	eaning and sterilizing equipment and facilities between use	√	√	√	√	
8.	Methods and standards to pr	repare and check equipment or facilities for use	√	√	√	√	
9.	Mechanisms and protocols fo	or reporting faulty, out-of-date or damaged equipment or supplies	√	√	√	√	
10.	Methods and protocols for m	anaging repairs, disposal or replacements			√	√	
11.	The principles of water, sanit cleaning	ation and hygiene (including hand hygiene), waste management and environmental	V	√	V	√	
		iated with insufficient decontamination, cleaning and maintenance	$\sqrt{}$	√	√	√	

#### PARTICIPATING IN EVALUATION AND RESEARCH

Task	S	<ol> <li>Sharing information about research, evaluation or performance monitoring activit communities</li> <li>Collecting, synthesizing and interpreting data</li> <li>Planning, implementing and evaluating local activities as part of a wider research</li> <li>Supporting the reporting of research results back to communities</li> <li>Making decisions based on data and evaluation of research findings</li> </ol>		individua	als and	
es	Profile A (e.g. nursing associate professional)					
ional rol	Profile B (e.g. CHW)  • Gathering quantitative and qualitative information, for example through househol • Preparing, maintaining and safely storing documentation as part of research			or focus	groups	
Illustrative occupational roles	<ul> <li>Profile C (e.g. nurse)</li> <li>Discussing an individual's involvement in a research activity</li> <li>Using a range of research methods to gather quantitative and qualitative information clinical findings</li> <li>Preparing research study materials</li> </ul>				als or abo	ut
sn	Profile D (e.g. paramedical practitioner)  • Coordinating local operations of a research study within an overarching framework  • Interpreting locally collected information for presentation in summary reports					
				В	C	D
Curr	ricular content		A	D	_	
Curr 1.		ving health and in measuring health system performance	<b>A</b> √	√	√	√
		J , ,	1	,	,	√ √
1.	The role of research in impro	search activity	√ /	√ /	√	-
1.	The role of research in impro	earch activity	√ /	√ /	√ √	√
1. 2. 3.	The role of research in impro The goals of the specified res The evidence base for the ard The roles of different team m Principles of research, includ	earch activity	√ √	√ √	√ √ √	√ √
1. 2. 3. 4.	The role of research in impro The goals of the specified res The evidence base for the are The roles of different team m Principles of research, includ consent, quality assurance, of general public health	nembers as part of the study ing formulating the research question, research study design, ethical considerations, lata collection and analysis methods, clinical audit, biostatistics, epidemiology, and concepts of validity, reliability and rigour in relation to the methods used to collect,	√ √	√ √	\frac{1}{\sqrt{1}}	√ √ √

#### DEVELOPING, EVALUATING AND IMPLEMENTING LOCAL POLICIES, PROCEDURES AND GUIDELINES

Tasks	5	<ol> <li>Setting up the development or review team</li> <li>Undertaking a baseline assessment</li> <li>Undertaking a stakeholder analysis</li> <li>Taking action to build awareness and commitment</li> <li>Gathering information</li> <li>Evaluating information and context</li> <li>Drafting a policy, procedure or guideline</li> <li>Testing (piloting or consulting) a policy, procedure or guideline</li> <li>Implementing a policy, procedure or guideline</li> <li>Monitoring the implementation of the policy, procedure or guideline</li> </ol>				
	Profile A (e.g. nursing associate professional)	<ul> <li>Gathering or sharing information, as directed within an overall plan</li> <li>Adapting own work to incorporate a policy, procedure or guideline</li> </ul>				
tional roles	Profile B (e.g. CHW)	<ul> <li>Gathering or sharing information, as directed within an overall plan</li> <li>Adapting own work to incorporate a policy, procedure or guideline</li> <li>Representing a specific perspective on a steering group or review group</li> </ul>				
Illustrative occupational roles	Profile C (e.g. nurse)  • Leading specific aspects of a policy development process, for example information gathering, so and consultation, or evaluation of inputs  • Taking action to ensure the alignment of a policy, procedure or guideline change across areas or others' work				-	
m⊞	Profile D (e.g. paramedical practitioner)  • Leading the planning and coordination of a policy development process in some circumstances  • Taking action to ensure the alignment of a policy, procedure or guideline change across areas of practice for own an others' work					
Curr	urricular content A					D
1.	The role of policies, procedures and guidelines in ensuring quality of care and effective resource use				√	√
2.	The purpose of the development and evaluation of a policy, procedure or guideline (change in evidence or national standards or service improvement)				√	√
3.	The scope of content for the	policy, procedure or guideline		√	√	√
4.	Frameworks for developing a	and evaluating policies, procedures and guidelines			√	√
5.					√	√
6.		evaluating policies, procedures and guidelines, their resource implications, and steps priate methods for the context			√	√
7.	Tools for resource mobilization	on, and the resources available for the process			√	√
8.		agement, including objective setting, timelines, resource planning, task allocation ce related to decision-making			√	√
9.	Methods of stakeholder anal	ysis			√	√
10.	The format and design of par stakeholder input	ticipatory approaches, and the principles of selection and representation of		√	1	V
11.	Relevant national policies, pr	rocedures or guidelines	√	√	√	√
12.	The relevant evidence base				√	√
13.	Sources of existing data, eval	uation and research findings	√	√	√	√
14.	Methods for gathering new of to the context	data (for example stakeholder feedback) and their applications, utility and relevance	1	√	V	√
15.	The context in which the pol	icy, procedure or guideline will be applied	√	√	√	√

# 4. Contextualizing the Global Competency and Outcomes Framework for UHC for competency-based education

When practice activities used as the organizing framework for curricula are aligned with population health needs, when the performance standards integrate behaviours, and when progress is defined by assessment of competence, the quality and relevance of new graduates can be assured. This chapter offers a high-level overview of a stepwise approach to using the Global Competency and Outcomes Framework for UHC to define outcomes (either as standards or as a framework) for a specific context, and then to develop a competency-based curriculum to meet those outcomes (standards only).

# 4.1 Contextualizing the Global Competency and Outcomes Framework for UHC for a specific context, set of services or occupational group

#### Overview

There are two applications for an adaptation of the Global Competency and Outcomes Framework for UHC. Both can be contextualized through the same process but with a different level of detail:

- as a framework for further specification or wider application, for example for specific occupations or a service area, or to show progressive levels of performance;
- to specify the standards for a specific set of practice activities, integrating behaviours as performance measures.

Curricular outcomes are standards, and enable the assessment of an individual's performance in meeting those standards.

The distinction between a framework and standards reflects whether the specification of outcomes is an authoritative statement or for adaptation and adoption.

The initial focus of contextualization is to select and specify relevant practice activities. The relevant competencies and behaviours and competency-based standards can then be specified in relation to the practice activities selected for a specified context.

The process should be iterative and consultative, as presented in Figure 4.1. Although the Global Competency and Outcomes Framework for UHC identifies the competencies and practice activities for the group of health

workers with 12–48 months pre-service training, these provide a useful reference and structure that can potentially be used to identify programme outcomes for health workers with pre-service training pathways of any duration.

Fig. 4.1 Five-stage process for contextualizing the Global Competency and Outcomes Framework for UHC for a specific setting, health service or occupational group

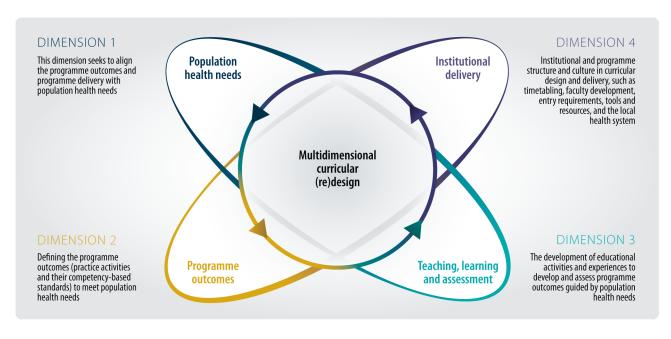


#### ► Stage 1: planning

In defining competency-based outcomes, there is a need to be mindful of how those outcomes will be implemented: they are only one part of an overall approach to implementing change. Before commencing the process of contextualizing the framework, it is important to think about the role of that framework within the curriculum. The potential gains of a competency-based curriculum can only be realized when they are part of a larger competency-prioritized environment where the outcomes of education programmes are aligned with the expectations of practice and regulation, internal and external risks (including due to emergencies), the availability of support, supervision, and training, and access to medicines, devices, technologies, information systems and financing.

Implementing the curriculum requires adequate institutional capacity, including trained faculty, learning resources and environments, as well as financial, political and regulatory support. Figure 4.2 presents the four dimensions of curricular (re)development, encompassing population health needs, programme outcomes, educational approaches and institutional delivery.

Fig. 4.2 Four-dimensional competency-based curricular development framework



Source: Adapted from Lee et al. (72).

At the outset of any work to define the outcomes, it is important to define the goals of the work, the scope and the context. Broadly, there are three approaches to a competency framework (73): analytic (competence deconstructed into individual pieces that are evaluated separately); synthetic (competence viewed holistically); or developmental (focuses on stages of, or milestones towards, competence). The Global Competency and Outcomes Framework for UHC is a hybrid of the synthetic (defines units of competence holistically) and analytic (identifying components of curricular content) approaches. The level of detail in the framework will be defined in relation to how it is intended to be used.

Finally, it is important that the planning stage takes into account the problem the work is trying to resolve, and whether the problem lies in course content, the training facilities or broader health system factors. For example, programmes with a vision of preparing health workers to practise in a rural or remote area may incorporate an approach encompassing targeted admissions policies; the location of health education facilities closer to rural areas; exposing students to rural and remote communities and clinical practices; and incorporating rural health topics. Equally, efforts may need to be joined up with employment practices to support faculty retention in rural areas (74). Information gathering and validation is key to understanding the context and the problems the work is trying to solve, identifying realistic options for change, and ensuring that sufficient resources and time are allowed to develop and implement change.

There are six good practice features of education (re)design that the United Nations Educational, Scientific and Cultural Organization (UNESCO) proposes should be adopted throughout this process, as presented in Table 4.1 (75).

#### **Stakeholder analysis**

Stakeholder analysis is the process of systematically gathering and analysing qualitative information to determine whose interests should be taken into account when developing or implementing a policy or programme. Stakeholder analysis is an important part of planning for the competency framework development process. WHO has published guides to stakeholder analysis in health (76) and health policy-making (77).

The key stakeholders in competency framework development include educationalists and faculty; health workforce training institutions and clinical placement providers; learners or prospective learners; employers (public and private sector); occupational or professional associations; regulatory bodies; user groups, such as patient groups and community groups; minority groups or marginalized populations, including indigenous representatives; service developers and managers; and subject matter experts.

Implementing education (re)design activities to meet individual and population health needs should ensure that the lens of social accountability is applied throughout the work so that health workers are supported to acquire and, through practice and lifelong learning, maintain the knowledge, skills and attitudes to meet the changing health needs and expectations of the population (29). A participatory approach with active community involvement is recommended to ensure that the contextualization and implementation of the framework meet the priority health needs of the community.

#### **Governance and responsibilities**

It can be useful to assign the roles and responsibilities of different stakeholders and key actors in the development process. This includes assigning who will have responsibility to coordinate the work; who will have a decision-making or consultative role; who will have oversight; and who has to sign off or approve the framework. It is useful to establish terms of reference for the different roles.

Table 4.1 Approaches to educational (re)design incorporating UNESCO's six principles of good practice

Approach	Characteristics of good practice	Tools and considerations
Planned and systematic	Implements sequenced activities in a realistic time frame	<ul> <li>What is the timeline?</li> <li>What is the workplan?</li> <li>What are the financial costs for the process as well as for dissemination and uptake?</li> <li>What are the resources available (human, infrastructure, technology and material) for the (re)design process? For implementation and uptake?</li> <li>What are the tools for capturing and recording data? What are the decision-making mechanisms?</li> </ul>
Inclusive	<ul> <li>Incorporates the expertise and perspectives of different stakeholders</li> <li>Assigns leadership and coordination roles</li> <li>Adopts a participatory approach to governance and decision-making</li> </ul>	<ul> <li>Stakeholder analysis: Who is the target audience? Who will be affected by the change?</li> <li>What are the political, legal or financial accountabilities?</li> <li>How will stakeholders be involved in information gathering, governance, decision-making and implementation?</li> <li>What is the language and terminology?</li> </ul>
Informed	Makes use of evidence and information, including advice, about educational reform and the context	<ul> <li>Does the framework reflect current practice or is it aspirational (future facing)? Should it show progression between different responsibilities?</li> <li>Who is the framework for? What occupational groups are covered?</li> <li>What are the problems and strengths of current educational approaches?</li> <li>Why and why now implement (re)design?</li> <li>What is the evidence around what works?</li> <li>What are the considerations for implementing different policy options in this context?</li> </ul>
Comprehensive	<ul> <li>Considers both the development of outcomes and the implementation of reform (four dimensions in Figure 4.2)</li> <li>Identifies and manages strengths and weaknesses through design</li> <li>Builds in monitoring and evaluation of impact as routine</li> </ul>	<ul> <li>What is the context? What are the individual and population-level health services to be provided?</li> <li>What risks do the population and health workforce face?</li> <li>How will the curriculum be implemented to ensure learners can achieve intended learning outcomes?</li> <li>What level of detail is required for operationalizing the framework or curriculum?</li> </ul>
Targeted	Is realistic about what solutions the change can bring, using clearly articulated objectives	<ul> <li>What is the scope of the educational (re)design, for example just the framework or framework and curriculum and implementation?</li> <li>What is the level of granularity required for usability? There is a trade-off between a lot of detail, which requires more frequent updating, and insufficient detail to be useful</li> </ul>
Broadly supported	<ul> <li>Ensures affected stakeholders are aware, involved and can plan for the change</li> <li>Achieves acceptance across the system by those affected</li> </ul>	<ul> <li>What level of endorsement is needed and from whom or which organizations?</li> <li>How will the final product be made available or used?</li> <li>What is the institutional readiness of and buy-in from stakeholders for change?</li> </ul>

#### **Resources**

Once the workplan has been confirmed, the human and financial resources for the work need to be identified and released at the designated stages in the workplan. Financial costs may be incurred through staffing fees, working meetings, and the production and dissemination of the completed framework – as well as the resources to implement it, for example trained faculty and clinical training facilities.

#### ► Stage 2: information gathering

It is important that information is gathered not only to inform the planning stage (budget, human resources, time, stakeholders), but also to inform the content and utility of the framework. Through the process of information gathering and triangulation, the goal is to identify and validate the broad functions of the scope of the framework; the tasks and subtasks within those functions; and the range of situations in which a person might need to perform those tasks. Guiding questions in information gathering are highlighted in Box 4.1.

#### Box 4.1 Guiding questions when gathering information to inform competency framework development

- · What tasks are done?
- What is legally required?
- What needs to be done additionally or differently in future?
- What are the interactions with other people? What roles do other people have in regard to this task?
- Is the task part of a team effort or can it be done alone?
- · What are the administrative tasks?
- · What does good practice look like?
- What does effective or ineffective performance look like?
- Does effective performance look different in different contexts or situations or with different groups of people?
- Are there potential "never" events?
- What ethical dilemmas might be encountered?
- In what situations might these dilemmas typically be encountered?
- What are the typical situations or contexts in which these tasks are performed?
- · What is the outcome of the tasks?
- · How do these tasks contribute to an overall (organizational) mission?
- What is the source of information? Is it recent or still applicable? What is the perception or utility of that source? Is it opinion or factual or a legal requirement?

The approach to gathering information draws on both job analysis and task analysis methods (78). Typically, competency frameworks are focused on the tasks rather than the job or the role holder. There is a range of methodologies that can be used for information gathering, including workshops, surveys, case studies, desk reviews, scenario-based interviews, direct observation or work sampling, as well as methods for validation and to achieve consensus. The methods of information gathering will be tailored to the scope of coverage, the amount of new information needed, the timeline, and the resources available to develop the framework. Evaluation will also need to take account of whether the gathered information is a requirement and unchangeable, or whether it is contextual and opinion based.

Competency-based education (CBE) has the potential to improve the health of the community only in so far as it uses context-specific health issues to determine the desired outcomes (10). Further, it is important that the contextualized framework is rooted in accurate information about the expectations of health workers in practice. Sources of information, as well as areas for information gathering, are suggested in Table 4.2.

Table 4.2 Key themes and sources of information to inform competency framework development

Themes of information	Sources of information
Essential package of health services Relevant legislation, policies, regulations and guidelines Occupational role and scope of practice Local epidemiology, mortality and morbidity, emergency risk assessments	<ul> <li>Ministries of health and finance</li> <li>Regulatory organizations</li> <li>Existing competency frameworks and standards</li> <li>Future-facing strategic documents</li> <li>Delivery guidelines, standards or protocols</li> <li>WHO or other global organizations</li> <li>Professional associations</li> <li>Quality requirements for the individual learner (regulation or licensing standards)</li> </ul>
	<ul> <li>Quality requirements for the education institution (accreditation)</li> <li>Existing curricula, competency frameworks or outcomes</li> <li>Existing job descriptions</li> <li>Data on burden of disease and prevalence of health conditions; quality of care</li> <li>The Global Competency and Outcomes Framework for UHC practice activities (Chapter 3)</li> </ul>
Local culture and context, for example economic conditions, climate, language, access to payment for services, specific vulnerable populations, challenges in practice and education  Practice settings, including the health system, teams (facility or community based)	<ul> <li>Subject matter experts (people who perform the work; people who manage, work with or mentor the people who perform the work; people who are recipients of the care)</li> <li>All-hazards emergency risk assessments (risk profiles)</li> <li>Gender-transformative education interventions (21)</li> <li>Case studies</li> <li>Records of events and never events</li> </ul>
Examples of good practice and effective performance Situations that the health worker is likely to encounter	<ul> <li>Observation</li> <li>The Global Competency and Outcomes Framework for UHC competencies and behaviours (Chapter 2)</li> </ul>

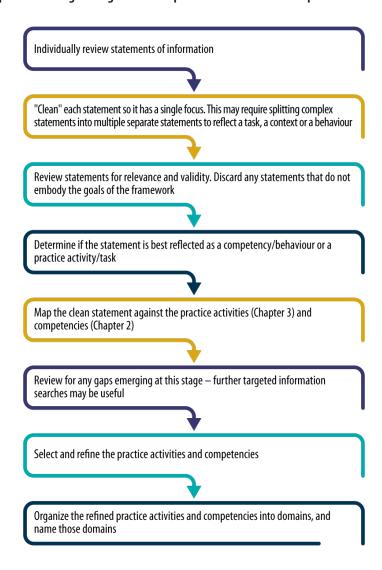
#### ► Stage 3: drafting content

During information gathering, different types of information may emerge that are not immediately identifiable as practice activities, tasks, competencies or behaviours. Other content may include values, circumstances, motivations, outcomes or impacts. During the drafting stage of framework development, it is important to both (a) validate the content as relevant and appropriate to the scope of the framework; and (b) organize and refine the content into a usable format. This means breaking down what the role of the individual is in achieving certain outcomes or impacts, or how values or motivations might be demonstrated through behaviours. Note that for the specification of the outcomes, it is not necessary to define the knowledge and skills content; these are necessary and useful only for defining curricula. However, a record should be kept of the relevant knowledge, skills and attitudes identified at this stage. Figure 4.3 summarizes the process of drafting.

Some of the information gathered may reflect current practice, whether or not this is part of the ideal practice. It is important for the framework to reflect the goal outcomes, rather than accepting and perpetuating patterns of less-than-ideal working practices. The findings of any gaps between the goals and the actual practices can be important information to identify challenges elsewhere in the health system. At the same time, the framework can be useful to identify the kinds of situations and challenges a health worker might find themselves in, and to identify the range of responses and options in that situation. This is all important content for the framework.

When interpreting information, it is important to think about whether the information is contextual and might inform the knowledge, skills or attitudes; or whether it is an observable, discrete action (tasks or practice activities) or an ongoing habit that enables multiple tasks or practice activities (behaviours or

Fig. 4.3 Overview of the process for organizing content as part of framework development



competencies). The definitions and characteristics are provided in Annex 1. A note of caution around statements such as an "ability to do a task" – think about how that statement will be assessed. If the task is the subject of assessment, then include it within the practice activities and tasks; if it is the health worker's ability that underpins multiple tasks, then group the content within the competencies. It may be that through the process of information gathering, additional tasks or practice activities are identified. These should be grouped into groups of tasks within a discrete function of practice.

Using the information gathered in stage 2, the practice activities outlined in Chapter 3 can be selected and specified as relevant. The 35 practice activities in this framework describe the core functions of health practice for teams of health workers with a pre-service pathway of 12–48 months, and which are considered integral to the attainment of UHC. Not all of these practice activities will be a regulated activity related to scope of practice; however, they all warrant consideration for inclusion in the curriculum. For example, some of the practice activities on communication (for example, practice activity 18 – providing or receiving a clinical presentation) or management (for example, practice activity 27 – accessing and documenting information) are essential to practice and hence are important areas of curricula, whether or not they are regulated. Box 4.2 presents guiding questions to select and specify practice activities.

#### Box 4.2 Guiding questions to select and specify practice activities

- What are the tasks within this practice activity, if any, as part of the role and responsibility?
- Are there specific health services, or health conditions, for which this practice activity is required?
- Does the title of the practice activity meaningfully reflect the groups of tasks it encompasses? Could the tasks within this practice activity be merged with another practice activity? Does the title require editing or additional clarification to accurately reflect the tasks within scope?
- Is the practice activity suitable for certification?

There are two approaches to specifying the limitations: incorporating the specification within the practice activity title, for example a named health intervention (in place of "providing non-pharmacological interventions"); or clarifying the scope, for example "making a diagnosis" (in place of "making a clinical judgement"); or an accompanying set of details, such as a list of medicines that can be prescribed or procedures that can be provided (79). As such, a single practice activity identified within the Global Competency and Outcomes Framework for UHC may be separated into several smaller practice activities, each with added specificity, and renamed entirely. By the same approach, several related practice activities may be combined. The goal is to define the practice activities that, in total, describe the range of activities of health practice for the context.

Practice activities should only be excluded when they are explicitly out of scope, often because the tasks are explicitly part of another health worker's role.

#### **Competency-based standards**

Chapter 2 identifies the competencies deemed to be essential for the provision of quality health services in UHC. It may be that not all of these competencies have been explicitly identified through the information-gathering stage. However, the same approach to reviewing and selecting practice activities and competencies should be taken: only exclude a competency if it is explicitly not relevant to the role. For a role encompassing a range of responsibilities across practice activities, it would be unexpected to remove competencies.

The drafting of competencies, and behaviours, for an adapted competency framework requires a deep understanding of the performance of the selected practice activities (and component tasks) and the settings or situations in which the health worker may perform those practice activities. Where practice activities are rooted in job descriptions, reflections on effective behaviours are inherently judgement based, and feedback from and the consensus of subject matter experts are key.

The behaviours identified in Chapter 2 are relevant to all health workers and framed through the lens of primary health care. Whilst all competencies are expected to be relevant, it may be that specific behaviours are added, or framed differently, for other contexts, such as working in fragile or conflict-affected settings.

When competency frameworks are used alongside standards of practice, they facilitate improvement of job performance (80); promote the attainment and maintenance of fitness to practise; aid identification of knowledge gaps and learning needs (81); and foster continuing personal development. Standards should be criterion referenced, in that they are measurable, realistic, safe, and not dependent upon the performance of others.

Competency-based standards are the performance measures for the practice activity. They typically encompass four components:

• a single action verb: the behaviour or measurable performance of the health worker (tip: avoid "ability to do x", as it is not the ability that needs to be assessed, but whether they do it):

- content: subject matter, use of tools;
- context: conditions under which the competency is demonstrated, including level of supervision, in certain situations, with certain audiences;
- criterion-referenced performance standard: for example, frequency, a level of accuracy, documentation expected.

In a competency framework, the competencies and behaviours will be organized separately from the practice activities. When adapting the framework to define competency-based standards, they are organized together. Annex 2 provides templates for both formats.

#### **Domains**

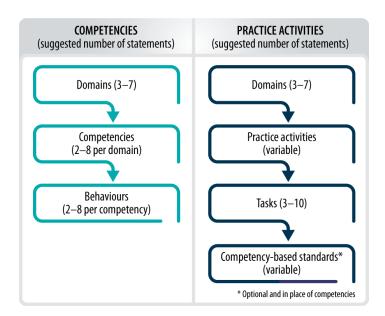
Domains are the headings for groups of statements within the framework. The three domains for practice activities within the Global Competency and Outcomes Framework for UHC reflect the range of health functions as a whole team across individual health, population health, and management and organization. Through the process of contextualization, it may be that other domains are more appropriate to organize the content of the framework. A similar approach might be relevant to the adaptation of the competencies, though fewer changes are anticipated there. Psychologists have debated the "rule of seven" (plus or minus two) for the purpose of memorability (82). The domains are arguably the presentation of the core values and priorities, and the key elements reflected in any visual representation.

Whilst the competencies and practice activities are measurable, the domains are the identifying characteristics that enable the reader to grasp the key principles at a glance. Domain names should be meaningful to the competency framework. Domains are not measurable; for clarity they should reflect concepts rather than statements that include a measurable verb.

#### **Granularity**

There is no "one-size-fits-all" approach to the detail of the content. Whatever the scope of the framework, the level of granularity should be consistent throughout, and it should enable its intended use and application. In Figure 4.4 the organization of the different components within the framework, and a guide to the number of statements within each component, are suggested.

Fig. 4.4 Proposed granularity and organization for a competency framework



#### ► Stage 4: consultation, validation and finalization

The process of consultation and validation of the findings is continuous, rather than being a single stage in the development process. Through the process of contextualization or refinement additional information needs may emerge, which may in turn inform how the outcomes and competencies are organized and specified.

A competency and outcomes framework represents the key areas of practice focus, effective behaviours, and the most appropriate organization and presentation of content. The stakeholder analysis conducted as part of the planning stage should be used to involve the target organizations and individuals as part of the consultation, validation and finalization stage to seek consensus and acceptance. Box 4.3 lists some potential methods of seeking and recording stakeholder review and feedback.

#### **Box 4.3 Potential consensus methods**

- · Delphi surveys
- · Nominal group technique
- Panel reviews (simultaneous)
- Peer reviews (sequential)
- Surveys
- Working groups (meetings or focus groups)

There is no single way to gather feedback, but consideration should be given to how and when it will be distributed, received and evaluated. Every outcome should be validated individually, as well as overall comprehensiveness. Again, referring back to the planning stage, the roles of decision-making authorities for the process guide the agreement of the final framework. Table 4.3 presents a checklist that can be used to verify the final framework.

Table 4.3 Checklist for finalizing a population health needs-based competency framework

Success factors	Success measures (checklist)
Valid	Content is based on the population health needs, roles and responsibilities and scopes of practice Content meets legal requirements The outcomes and competencies are clearly articulated Content is comprehensive The standard reflects the required proficiency Content is supported by evidence and guidelines Content is supported by consensus
Acceptable	☐ The framework is acceptable to all stakeholders
Usable	<ul> <li>The structure, layout and style of the framework make it easy to use the content</li> <li>The framework, including any supporting tools, is usable by all of its intended applications</li> <li>Complex ideas are conveyed in a simple manner</li> <li>Terms are not ambiguous</li> <li>The language, abbreviations and terminology are appropriate for the intended use (including if using translation)</li> <li>Outcomes and competencies are measurable</li> </ul>

#### ► Stage 5: dissemination

A dissemination strategy is an important part of ensuring the application and uptake of the adapted competency framework and competency-based standards as intended. There are many different ways of ensuring that the framework reaches its intended audience, and awareness amongst key stakeholders should have been built throughout the planning, consultation and development process. Further dissemination tools include:

- making the content available in digital or hard copy formats;
- promoting publication and availability via social media and mailing lists;
- having the publication endorsed and promoted by partner organizations;
- holding workshops (digital or in person) tailored to specific audiences or user groups.

# 4.2 Developing competency-based curricula from competency-based outcomes (standards)

This section looks at the development of curricula to support learner achievement of the outcomes defined in the adapted competency framework. To recap, the practice activities provide the holistic areas of health practice that a learner will be able to perform on completion of the course; standards specify the performance measures for the situations in which these practice activities should be performed, including the level of supervision. This means that the curricular outcomes are both the practice activities and the behavioural standards; note that competencies are themselves not a terminal objective and proficiency will continue to develop after programme completion.

The curriculum encompasses the content of learning, the organization and sequencing of content, the learning experiences, teaching methods, and the formats of assessment, as well as continuous quality improvement and programmatic evaluation (23). This section addresses the key principles for each of these in turn. Whilst it provides a systematic approach to curricular (re)design, it does not define curricular content or educational approaches. These should be determined by the institution (or standard-setting body), reflect the programme learning outcomes, and be tailored to the context and the needs of learners. This approach can be applied in the context of pre- or post-service curricular development.

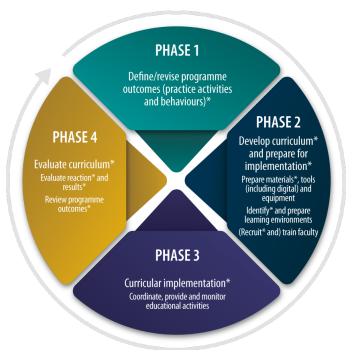
#### Planning

Planning and information gathering are requisite foundations for curricular (re)design and development. This section is written as a continuation of the process of contextualizing the competency framework to define programme outcomes (stage 1 in the previous section). The planning, stakeholder analysis, assigning governance and responsibilities, resourcing and information gathering for contextualizing the framework should all be upheld if following this process as a stand-alone education intervention.

A well designed curriculum is critical to the implementation of CBE, and it must be within the context of institutional capacity, including faculty, learning resources (equipment, libraries, technologies), availability of learning environments (clinical, digital) and supervision. The planning process must account for all components in the sequential process of implementing a new or revised curriculum, as illustrated in Figure 4.5, for the new curriculum to be implemented as intended. It can be noted that just as the principles

of social accountability were integrated into the definition of the programme outcomes (practice activities and behaviours), the principles of social accountability should be integral to the sequential process for strengthening and implementing new or revised curricula, including the integration of educational experiences across community health service provision, and the selection and recruitment of students and faculty from the local community.

Fig. 4.5 Phases of strengthening education programmes through curricular (re)design



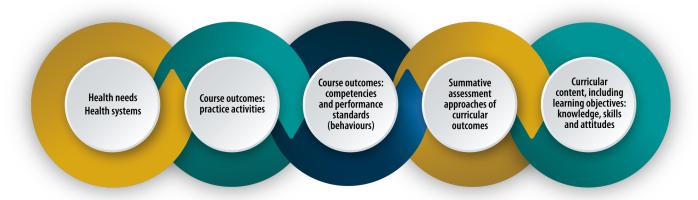
*Note:* \* denotes community engagement.

Source: Adapted from Integrated Management of Childhood Illness (83).

#### ► The content of learning

The curricular outcomes should be defined in terms of practice activities and their component tasks, and the behaviours reflecting competencies for the performance standards of those practice activities. This next step requires translating each of those desired outcomes into learning objectives that articulate the component knowledge, skills and attitudes, as well as practice activities, tasks, competencies and behaviours for the required proficiency. The learning objectives are the subject of assessment, and collectively should enable the learner to perform the practice activity to the requisite standard (Figure 4.6).

Fig. 4.6 Defining learning objectives that meet population health needs



Two taxonomies help to clarify different kinds of learning and can provide the basis for defining learning objectives. These are Bloom's taxonomy of knowledge (recall, understanding, application, analysis, evaluation and creation) (84) and Miller's pyramid of clinical competence (knows, knows how, shows how, does) (85).

When using a competency and outcomes framework to identify and define performance standards it is important to first define the conditions under which the tasks should be performed, the specific tools that may be used, and the level of supervision or autonomy. Then, the component knowledge, skills, attitudes and behaviours can be identified that enable the individual to perform those tasks. With these parameters defined, learning objectives can be elicited from the knowledge, skills, attitudes and behaviours, using verbs that reflect the proficiency.

The Global Competency and Outcomes Framework for UHC provides a curricular guide for each of the practice activities that can be used to inform the specification of learning objectives or units of learning. Not all of the curricular areas will be required, dependent on the combination of tasks within the specified practice activities. During the information-gathering phase, further knowledge, skills and attitudes may have been identified. It is important to identify the range of knowledge, skills and attitudes that underpin the learning objectives, and in turn the learning outcomes, as these inform the learning experiences and methods of assessment.

Additional considerations in identifying learning objectives for knowledge and skills may include:

- mastery of knowledge for practice activities and the accompanying range of health interventions;
- contextual knowledge, for example relating to local culture and customs;
- procedural skills and use of equipment and technologies;
- attitudes or demonstration of attitudes through behaviours for effective performance;
- tools, methods, strategies and actions that can be adopted to integrate competencies into practice, for example the range of communication techniques or digital technologies;
- different situations or scenarios that might be encountered;
- different groups of individuals or organizations that the individual may work with, and the nature of those interactions (from sharing information to persuading or negotiating).

Additional considerations in identifying learning objectives for attitudes may include:

- concepts and theories related to each behaviour;
- the impact of each behaviour on health practice, health-seeking behaviours and health outcomes;
- examples of positive and negative behaviours in the context of the practice activities;
- tools and techniques to integrate behaviours into practice;
- the importance of each behaviour;
- the motivation to perform each behaviour.

One example of connecting the competencies for competency 20: contributes to a culture of safety and continuous quality improvement is explored in Table 4.4 in the context of two practice activities in the individual health domain:

- practice activity 9: prescribing medications or therapeutics
- practice activity 10: preparing and dispensing medications or therapeutics

Table 4.4 Illustrative learning objectives for competency 20 and its component behaviours

Competency	Behaviour	Learning objective
Competency 20: contributes to a	<b>20.1</b> Adheres to safety protocols that avoid adverse events, health care errors, and incidents of harm and unsafe	a. Defines each term within the definition of quality in health care
culture of safety and continuous quality	practice	b. Describes the role of each term as it contributes to the provision of quality in health care
improvement		<ul> <li>Locates all safety protocols and checklists existing in the workplace relating to prescribing, preparing and dispensing medications</li> </ul>
		d. Identifies the events within prescribing and dispensing that require reporting
		e. Implements all safety protocols and checklists existing in the workplace
		f. Completes a self-check of a prescription order
	<b>20.2</b> Learns from what works and what has not gone well	g. Describes the available PPE and the situations for which it is used
		h. Demonstrates the donning, doffing and disposal of PPE
		a. Describes the process of learning from experience through self-assessment
		b. Evaluates the successes, challenges and potential failures during a prescribing interaction
	<b>20.3</b> Offers suggestions for improvement to address identified problems	a. Identifies a useful way to present suggestions for improvement
	·	b. Drafts at least one memorandum or presentation to describe potential solution to a prescribing error
	<b>20.4</b> Participates in quality measurement and continuous quality improvement processes	<ul><li>a. Identifies times and places for discussion of continuous quality improvement in the practice setting</li><li>b. Describes the contributions of different team members to quality improvement processes</li></ul>

#### **▶** Assessment

Assessment is a fundamental feature of CBE – both the focus on the achievement and summative assessment of outcomes (assessment of learning), and the integration of continuous formative assessments (assessment for learning) (22). There are three principles that should guide the construction of assessment approaches: assessment should be transparent so that learners and tutors know what is being assessed and how; every competency should be assessed, not just those that are easy to assess; and assessment should be triangulated, so that each outcome is assessed in more than one way on more than one occasion to reflect the adaptation to context.

The measure of competence is the performance of the required practice activities, integrating competencies to the defined standard for the context. This requires that the criteria for assessment have been defined clearly. Assessment of competence is critical for the learner, the tutor, the institution, the accrediting body, the employer and ultimately the community served. In some settings, the decisions about whether a learner has attained the standard of competence to graduate from a programme or to begin practice are the same decision; in other settings, these decisions are separated, for example if there is an external licensing assessment separate from a graduation decision.

The range of learning outcomes cannot all be assessed in a single assessment format (9). In the same way that the learning experience should be matched to the learning objective, the assessment format should be aligned (85). The multiplicity of assessments is sometimes referred to as a system for this reason. Assessment of the diversity of programme outcomes requires multiple assessment methods, and multiple trained assessors (22). Similarly, health workers do not perform consistently from task to task: competence is context specific, not generic (86). Therefore, a determination of a person's competence should incorporate multiple measures in different settings and at different times.

Formative assessments enhance learning by providing ongoing feedback to the learner and tutor to target additional learning needs; they motivate the students; and they provide indications of progress during a programme. Summative assessments can be used for a pass or fail decision, but also to grade or rank learners in relation to each other (for example, selection for a competitive activity or role). The purpose of the assessment, and how the assessment information will be used, influences the selection of assessment formats, and the effort required to ensure that the assessment decisions are defensible.

There are many different assessment formats used in CBE in health worker education, using paper-based or digital formats, and sometimes involving multiple assessors, patients, actors or simulated clinical conditions as well as performance-based assessment in practice. The selection of the most appropriate assessment formats for the learning outcome should reflect who (both learner and assessor); what (learning outcome, content); where (workplace-based, simulation, self-paced, examination hall); when (stage in the programme); why (purpose: formative or summative); and how (what format, standard or guideline for a decision).

Factors involved in selecting the choice of assessment instruments include the validity (does the assessment measure what it is intended to measure?), reliability (is the assessment reproducible and consistent?), educational impact, cost–effectiveness and feasibility (88). Consideration must also be given to the assessment standards, which may require complex procedures to define the actual score or performance metric by which a learner would be considered competent (9). Various time-consuming but essential methods have been developed to determine passing standards for knowledge assessments, item by item, such as the techniques of Angoff, Ebel and Hoftsee. The choice of method will depend upon the available resources and on the consequences of misclassifying assessment outcomes (86).

Strategies to manage these different factors include multiple assessors to increase the inter-rater reliability, training faculty to ensure that the assessment is used as intended (validity), and adjusting the length of testing time or the number of assessment items. These in turn affect the cost–effectiveness or feasibility of the assessment. In Table 4.5, utility considerations are depicted in relation to assessment formats to assess the different types of learning outcome.

Table 4.5 Assessment formats and their relevance to learning outcomes and programme outcomes

			Utility consideration	ns	Learn	ing obje	ctives	Progra	amme omes
Stage in Miller's pyramid (84)	Example assessment formats	Reliability	Cost— effectiveness, feasibility	Validity, impact	Knowledge	Skills	Attitude	Behaviour	Practice activities
Does	<ul> <li>Case-based discussion</li> <li>Checklists</li> <li>Direct observation of procedural skills</li> <li>Mini-clinical evaluation exercise</li> <li>Multi-source feedback</li> <li>Patient record review</li> <li>Portfolio</li> </ul>	Subjective	Close supervision, unpredictable	Authentic, positive impact on learning, narrow breadth	(√)	(√)	(√)	V	V
Shows how	<ul> <li>Observed structured clinical examination</li> <li>Objective structured long examination record</li> <li>Oral case presentation</li> <li>Skills laboratory</li> <li>Simulation exercises</li> <li>Standardized patient encounter</li> <li>Virtual reality case management</li> </ul>		Resource intensive to run (controlled situations, predictable)		(√)	V	(√)	(√)	(√)
Knows how	<ul> <li>Chart-stimulated recall</li> <li>Development of individual learning plan</li> <li>Essay</li> <li>Oral questioning with longer answers</li> <li>Clinical problem solving</li> </ul>	•			√	(√)	(√)		
Knows	<ul><li>Constructed response questions</li><li>Multiple choice questions</li><li>Short answer questions</li></ul>	Objective	Resource intensive to develop, predictable	Inauthentic, wide breadth	$\sqrt{}$				

*Note:*  $(\sqrt{})$  inferred,  $\sqrt{}$  explicit.

Finally, programmatic assessment of the pass or fail decision should be decoupled from individual assessments, or made by a single assessor (22). Indeed, such decisions should only be made when sufficient information is gathered and combined from the multiple summative assessments of each of the requisite practice activities to the defined standard.

#### ► The organization and sequencing of content

Curricular sequencing involves managing the learner's route in a way that makes it easier for them to organize meaningful patterns in the vast amount of content and to achieve learning outcomes. When designing a curriculum, it is common and advisable to break complex competencies into sets of knowledge and skills, ensuring mastery of each before attempting to assess the application of that knowledge and skill

to in the context of the practice activity. Sequencing may involve moving from simple to complex; general information or principles to a more detailed consideration; or from theoretical to application in practice. In some situations, the sequencing of modular units of learning may be influenced by logistics, for example clinical rotations. Of prime consideration in sequencing are the prerequisites to different course units; the areas of knowledge, skills and attitudinal consolidation; and the application of outcomes gained.

The development of competencies should be integrated into the learning activities for the practice activities identified as course outcomes. For example, effective communication can only be learned – and assessed – in the context of the practice activities requiring communication.

#### Learning experiences and teaching methods

Effective CBE is rooted in constructive alignment theory (89), whereby the learning experiences and assessment of learning are aligned with the defined outcomes. Different learning experiences suit different types and levels of knowledge and skill. There are many different curricular approaches that are compatible with competency-based curricula, including community-oriented or community-based, integrated, task-based, system-based, modular, spiral, discipline-based, and problem-based learning. Further, many different educational approaches and tools warrant consideration, including the flipped classroom, interprofessional education, problem-based learning, small-group learning, reflective practice and blended learning, depending on the content of the learning, the learning outcomes to be achieved and the goals of the educational programme.

Selection of learning experiences requires careful planning with regard to what can be taught and learned in clinical settings. There are different schools of thought on whether clinical exposure is better early, to provide the grounding and relevance for later detailed learning, or whether it is better to first gain the theoretical grounding prior to clinical experience. In many contexts, access to supervised clinical learning is limited and provides a resource constraint to the curricular design.

As far as possible, course learning materials should be up to date, evidence based, and relevant to the country and setting in which the curriculum will be implemented. For example, some materials published in high-resource settings, or in urban areas, may need supplementary material to be relevant to other settings.

An important part of operationalizing a curriculum is determining the time, the learning environments, the learning contexts and the materials for achieving the learning objectives. Scheduling, particularly where clinical placements are required, presents some limitations that seem at odds with a competency-based approach. However, competence is not a static trait, and learners will continue to develop and consolidate their learning with continued clinical exposure. The introduction of a competency-based approach within a time-based system is possible, provided that mastery of outcomes signals the progression.

Health worker education can play a transformative part in gender and inclusion for both learners and faculty, in terms of both content and organization of delivery. When planning for the delivery of education, consideration should be given to gender-transformative education interventions, such as flexible timetabling and approaches that enable pregnant learners to continue their training (21).

Table 4.6 illustrates how the learning experiences and assessment formats for a given set of learning objectives should be aligned. To reduce the risk of overburdening the curriculum with assessment, it is important to consider how many learning objectives can be assessed by the same format at the same time.

Table 4.6 Alignment of learning experiences and assessment formats with illustrative learning objectives for competency 20

Behaviour	Learning objective	Learning experience	Assessment format
20.1	<ul> <li>a. Defines each term within the definition of quality in health care</li> <li>b. Describes the role of each term in the provision of quality in health care</li> <li>c. Locates all safety protocols and checklists existing in the workplace relating to prescribing, preparing and dispensing medication</li> <li>d. Implements all safety protocols and checklists existing in the workplace</li> <li>e. Identifies the events within prescribing and dispensing that require reporting</li> <li>f. Implements all safety protocols and checklists existing in the workplace</li> <li>g. Completes a self-check of a prescription order</li> <li>h. Describes the available PPE and the situations for which it is used</li> <li>i. Demonstrates the donning, doffing and disposal of PPE</li> </ul>	<ul> <li>Group-based discussion of the areas of practice: prescribing medications and therapeutics; preparing and dispensing medications and therapeutics, with a focus on the potential for errors, the potential patient impact of errors, and experiences with errors or follow-up</li> <li>Watch a video of personal protective equipment demonstration</li> <li>Read the safety protocols and checklists</li> <li>A 45-minute lecture on the key components of quality improvement, the resources that can support quality improvement, and the roles of different personnel in quality improvement, with specific references to the issues that come from working mostly alone or with only one other person, and an overview of how protocols or checklists may help or hinder quality improvement</li> </ul>	<ul> <li>Multiple choice questions (formative)</li> <li>Objective written test (summative)</li> <li>Observed performance (formative)</li> <li>Multi-source feedback (ongoing)</li> </ul>
20.2	<ul> <li>a. Describes the process of learning from experience through self-assessment</li> <li>b. Evaluates the successes, challenges and potential failures during a prescribing interaction</li> </ul>	Group discussions of three or four learners to reflect on a real or potential error and what might have been done to avoid this; then full class discussion, highlighting issues related to staff hesitancy to do reporting and follow-up of errors or possible errors	<ul> <li>Oral questioning (summative)</li> <li>Case-based discussion (formative)</li> </ul>
20.3	<ul> <li>a. Identifies a useful way to present suggestions for improvement</li> <li>b. Drafts at least one memorandum or presentation to describe a potential solution to a problem</li> </ul>	Write an action plan to identify existing quality improvement activities, if any, and draft a quality improvement memo	<ul> <li>Case-based discussion (formative)</li> <li>Planned observation by checklist or rating (summative)</li> </ul>
20.4	<ul> <li>a. Identifies times and places for discussion of continuous quality improvement in the practice setting</li> <li>b. Describes the contributions of different team members to quality improvement processes</li> </ul>	Complete a reflective report based on real-life experience	<ul> <li>Oral questioning (summative)</li> <li>Case-based discussion (formative)</li> <li>Self-reflection report (formative)</li> </ul>

#### Continuous quality improvement and programmatic evaluation

Curricular evaluation is an integral part of curricular development. Kirkpatrick's hierarchy of evaluation (90) incorporates evaluation of reaction (learner satisfaction), evaluation of learning (knowledge and skills acquired), evaluation of behaviour (transfer of learning to the workplace) and evaluation of results (impact on society). Table 4.7 suggests some approaches to curricular evaluation at these levels.

Table 4.7 Examples of programmatic evaluation of curricular design and implementation

Kirkpatrick level of outcome	Audience	Format	Example points of evaluation
Reaction	Learners	Course evaluation questionnaire	<ul> <li>Satisfaction</li> <li>Engagement</li> <li>Relevance of course content</li> <li>Methods and burden of assessment</li> <li>Learning materials</li> <li>Learning experiences</li> <li>Infrastructure, facilities</li> </ul>
	Faculty	Survey, interview	<ul><li> Methods and burden of assessment</li><li> Learning materials</li><li> Learning experiences</li></ul>
Learning	Learners	Programme evaluation questionnaire	<ul> <li>Learner readiness</li> <li>Changes in knowledge, skills, attitudes, competencies, confidence and commitment</li> </ul>
Behaviour	Course graduates	Survey, interview	<ul><li>% of learners employed</li><li>Perception of readiness for role and responsibility</li></ul>
	Employers	Survey, interview	<ul><li>Learner/graduate general readiness for practice</li><li>Learner/graduate confidence</li><li>Learner/graduate values and attitudes</li></ul>
Results	Individuals, communities	Service user survey Service data	<ul><li> Quality of care</li><li> Health outcomes</li></ul>

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## Annex 1

# Writing principles for the components of a competency framework: competencies, behaviours, practice activities and tasks

The following are the writing principles developed and applied in the development of the Global Competency and Outcomes Framework for UHC. They are also provided here to guide users in contextualizing the framework.

Competency	
Definition	The ability of a person to integrate knowledge, skills, and attitudes in their performance of tasks in a given context. Competencies are durable, trainable and, through the expression of behaviours, measurable
Characteristics	<ul> <li>Continuous, ongoing abilities</li> <li>May develop or erode with time</li> <li>Enables performance of multiple practice activities</li> <li>A person can possess a competency</li> <li>A competency is demonstrated in the context of performance</li> <li>Requires the integration of knowledge, skills and attitudes</li> <li>The behaviour demonstrating the competency defines the standard for performance</li> <li>A competency is multifaceted (demonstrated through multiple behaviours)</li> <li>Behaviours are the measurable expression of a competency</li> </ul>
Writing principles	<ol> <li>Action verb: third person singular</li> <li>Lists are in alphabetical order</li> <li>The focus is on the role of the individual, rather than why or what the end result might be; does not assign attitudes, beliefs, goals or motivations</li> <li>No statements of what not to do</li> <li>No relative or evaluative adverbs (for example quickly, slowly) or adjectives (for example good, effective, appropriate); these are more appropriate for standards</li> <li>Each competency appears once in the framework; some competencies may have an overlapping focus if additional detail is provided, for example, communicates effectively with patients, colleagues and intersectoral teams. In this case judgement is required whether to organize as part of "communication" or "collaboration"</li> </ol>

#### **Behaviour Definition** Observable conduct towards other people or tasks that expresses a competency. Behaviours are measurable in the performance of tasks Characteristics · Continuous, ongoing behaviours (habits) · May develop or erode with time • Enables performance of multiple practice activities • Requires the integration of knowledge, skills and attitudes • Defines the standard for performance • Multiple behaviours demonstrate a single competency • Performance is measurable as a judgement on a scale of frequency (never, sometimes, always) Writing 1. Action verb: third person singular principles 2. A single, measurable verb only 3. Lists are in alphabetical order 4. Does not assign attitudes, beliefs, goals or motivations; the focus is on the role of the individual, rather than why or what the end result might be 5. The expression of behaviour is within the power or control of the health worker; a health worker controls their actions or response to a situation but they cannot control the outcome 6. No statements of what not to do 7. No relative or evaluative adverbs (for example quickly, slowly) or adjectives (for example good, effective, appropriate); these are more appropriate for standards 8. Each behaviour appears once in the framework

Practice activity	
Definition	A core function of health practice comprising a group of related tasks. Practice activities are time limited, trainable and, through the performance of tasks, measurable. Individuals may be certified to perform practice activities
Characteristics	<ul> <li>Describes the common goal of a group of tasks</li> <li>Time-limited, discrete actions, observable from start to finish</li> <li>Requires the application of knowledge, skills and attitudes</li> <li>A person can perform a practice activity or task, but they cannot possess it</li> <li>The unit of assessment, certification or regulation</li> </ul>
Writing principles	<ol> <li>Single action verb: present tense, continuous</li> <li>The "size" of a practice activity is not reflective of the curricular time; it is acceptable that these are variable</li> <li>Each practice activity appears once in the framework</li> </ol>

Task	
Definition	An observable unit of work within a practice activity that draws on knowledge, skills and attitudes. Tasks are time limited, trainable and measurable
Characteristics	<ul> <li>Time-limited, discrete actions, observable from start to finish</li> <li>Requires the application of knowledge, skills and attitudes</li> <li>A person can perform a practice activity or task, but they cannot possess it</li> <li>The unit of assessment, certification or regulation</li> <li>A smaller, measurable unit within a practice activity</li> <li>Does not achieve a goal in itself; is abstract unless considered in the context of the wider practice activity</li> <li>Performance is measurable on a dichotomous scale (yes or no)</li> </ul>
Writing principles	<ol> <li>Single action verb: present tense, continuous</li> <li>Does not represent a guideline or sequential performance</li> <li>Represents good practice</li> <li>Applicable across roles, settings, situations or tasks, without specifying them</li> <li>Does not incorporate occupational standards, such as the frequency, the circumstances in which to execute the task, or interpretations of what is appropriate or relevant</li> <li>No relative or evaluative adverbs (for example quickly, slowly) or adjectives (for example good, effective, appropriate); these are more appropriate for standards</li> <li>Appears once within a practice activity. May appear in multiple practice activities</li> </ol>

## Annex 2

#### Templates for contextualizing the Global Competency and Outcomes Framework for UHC for a specific context, set of services or occupational group

There is no single correct way to represent the competencies and practice activities, as it depends on their level of granularity, their number, the domains, and how much of the underlying detail is defined. Each of the two options below could be further expanded to add proficiency levels relating to the tasks within responsibility if the contextualized framework is intended to guide milestones in a learner's journey.

#### Format 1: competency and outcomes framework

Suitable for a framework that has broad application across multiple occupational groups or settings, for further adaptation and adoption.

Competency domain		
1.	Competency a. Behaviour b. Behaviour c. etc.	
2.	Competency a. Behaviour b. Behaviour c. etc.	
3.	Competency a. Behaviour b. Behaviour c. etc.	

Practice activity domain		
1.	Practice activity a. Task b. Task c. etc.	
2.	Practice activity a. Task b. Task c. etc.	
3.	Practice activity a. Task b. Task c. etc.	

#### Format 2: competency-based standards

Authoritative statements of performance or defined programme outcomes.

Practice activity	Title
Tasks	a. Task b. Task c. etc.
Performance standards	<ul> <li>a. Behaviour (action verb) + content (tools, subject matter) + criteria (frequency, accuracy etc.)</li> <li>b. Behaviour (action verb) + content (tools, subject matter) + criteria (frequency, accuracy etc.)</li> <li>c. etc.</li> </ul>



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