

Title: Tools & Resources Mapped to Strategic Objective 5 of the WHO Global Patient Safety Action Plan 2021-2030
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S.	Health worker education, skills and safety	Name	Link	Type of resource	Source	Description	Language	Cost	Interlinking areas
S.1	Patient safety in professional education and training	Patient Safety Education Plan	https://www.patient-safety-education.org/2020/02/	Action Plan	Canadian Patient Safety Institute	An action plan for patient safety and QI Education to lay the foundation of a national patient safety education network.	English	Free	
S.1	Patient safety in professional education and training	Patient Safety Education Program - Canada Curriculum	https://www.patient-safety-education.org/2020/02/	Curriculum	Canadian Patient Safety Institute	Canadian curriculum, originally developed by international patient safety experts and customized by Canadian patient safety experts for Canada healthcare providers, is a living curriculum that is regularly reviewed, revised, updated, and expanded.	English	Mostly free but comes at cost for materials as you need to take the course	
S.1	Patient safety in professional education and training	PH Open School Patient Safety Curriculum	http://www.phopen.ca/2019/09/09/2019-09-09-ph-open-school-patient-safety-curriculum/	Curriculum	PH	The PH Open School Patient Safety Curriculum contains multimedia resources about patient safety. It explores foundational concepts like human factors science, risk mitigation, and teamwork.	English	Enrollment: 150 dollars, premium member: 150 dollars, premium member: 500 dollars	
S.1	Patient safety in professional education and training	Quality Improvement and Patient Safety Competencies Across the Learning Continuum	https://www.gmc.ca/2019/09/09/2019-09-09-quality-improvement-and-patient-safety-competencies-across-the-learning-continuum/	Framework	Association of American Medical Colleges	The New and Emerging Areas in Medicine Series frames competencies across the undergraduate, graduate, and continuing medical education continuum. This document includes an introduction to competency-based education of the first set of competencies, and a core for Accreditation for Accreditation on quality improvement and patient safety. These cross-continuum competencies are intended to help educators design and deliver curricula and related activities and to help learners in their individual QPS professional development efforts, too.	English	Free	
S.1	Patient safety in professional education and training	Report on the integration of the safety competence framework into health professions education programs in Canada	https://www.patient-safety-education.org/2020/02/	Framework	Canadian Patient Safety Institute	The Safety Competency Framework was created by the CPSI in order to encourage faculties and schools to develop curricula based on a set of nationally defined competencies focusing on patient safety. This report reviews the integration of the Framework in order to support the Framework's revision.	English	Free	
S.1	Patient safety in professional education and training	WHO patient safety curriculum guide for medical schools	https://www.who.int/publications/item/9789241562626	Guidance	WHO	The Curriculum Guide is a comprehensive programme for implementation of patient safety education in medical schools worldwide. It comprises two parts: Part A is a teacher's guide, which has been designed to assist teachers to implement the Curriculum Guide. This lays the foundations for capacity-building in patient safety education and Part B provides a comprehensive, ready-to-teach, topic-based patient safety programme that can be implemented either as a whole or on a per topic basis.	English	Free	
S.1	Patient safety in professional education and training	WHO patient safety curriculum guide: multi-professional edition	https://www.who.int/publications/item/9789241562626	Guidance	WHO	The Multi-professional Patient Safety Curriculum Guide (2011) was developed to assist in the teaching of patient safety in universities and schools in the fields of dentistry, medicine, midwifery, nursing and pharmacy. It also supports the on-going training of all health care professionals.	Japanese, Chinese, Czech, Italian, Indonesian, Portuguese, Polish, Korean, German, English	Free	
S.1	Patient safety in professional education and training	Education, training and development	https://www.who.int/publications/item/9789241562626	Handbook	WHO	The manual's handbook for maturity transformation programme. Section on education, training and development which discusses both self-development and staff development and how to implement organisational change.	English	Free	4.1
S.1	Patient safety in professional education and training	Patient Safety Specialisation	https://www.nursingandmidwiferyboard.org.au/2020/02/20/patient-safety-specialisation/	Online course	Health Professions	The Patient Safety & Quality Leadership Specialisation course is the concept and methodologies used in process improvement within healthcare. Successful participants will develop a system's view of safety and quality challenges and will learn strategies for improving culture, enhancing teamwork, managing change and resolving incidents.	English	Free	
S.1	Patient safety in professional education and training	Patient Safety in Medical, Nursing, and Other Health Professions	https://www.who.int/publications/item/9789241562626	Perspective	Patent Safety Network	This essay reviews teaching considerations from recent research that institutions may implement to enhance incorporation of patient safety in medical and nursing education. They provide recommendations for future patient safety concepts and how to integrate them into curricula.	English	Free	
S.1	Patient safety in professional education and training	Commission of Education and Training for Patient Safety Progress report	https://www.who.int/publications/item/9789241562626	Progress report	HEE	Since the publication of the Commission on Education and Training for Patient Safety report in March 2020, Health Education England (HEE) has worked in collaboration with patient safety partners and across the sector to introduce and embed the work of the Commission and suite of evidence-based recommendations for improving the education and training of health professionals to deliver safe, effective, compassionate patient-centred care.	English	Free	
S.1	Patient safety in professional education and training	Evaluation of Education and Training Interventions for Patient Safety	https://www.who.int/publications/item/9789241562626	Report	Centre for Health Policy at Imperial College London	HEE set out the case for 'what works' in educational and training interventions for patient safety to identify how education and training can help deliver safe care. Imperial College Centre for Health Policy, was identified as an academic partner. This report summarises a literature search and the results of the work on the effectiveness of education and training as well as a summary of conversations at national, local, patient safety and clinical levels.	English	Free	
S.1	Patient safety in professional education and training	First, do no harm: Enhancing patient safety teaching in undergraduate medical education	https://www.gmc.co.uk/2020/02/20/first-do-no-harm-enhancing-patient-safety-teaching-in-undergraduate-medical-education/	Report	GMC & Medical Schools Council	This report highlights and reinforces the commitment from medical schools in the UK to each patient safety. It highlights examples of medical school initiatives as well as patient safety projects from medical students and doctors in training. It also provides areas where future work needs to be concentrated.	English	Free	
S.1	Patient safety in professional education and training	Health Education England Supporting Patient Safety Through Education and Training	https://www.hee.nhs.uk/2020/02/20/health-education-england-supporting-patient-safety-through-education-and-training/	Report	HEE	This report describes how HEE supports the implementation of patient safety into education and describes how HEE can be most effectively delivered. In this Annex it provides examples of patient safety education programmes.	English	Free	
S.1	Patient safety in professional education and training	Unmet Needs: Teaching Physicians to Provide Safe Patient Care	https://www.who.int/publications/item/9789241562626	Report	Isaiah Leape Institute	Unmet Needs is the culmination of three US roundtable discussions and makes key recommendations for reforming medical education in order to improve patient safety.	English	Free	
S.1	Patient safety in professional education and training	ISQAS Specialist Certificates	https://www.isqas.org/2020/02/20/isqas-specialist-certificates/	Specialist Certificates	International Society for Quality in Health Care	ISQAS Specialist Certificate are specifically designed for dedicated healthcare professionals. They provide ultimate focus on patient safety in medical and in implementing healthcare improvement.	English	Cost between 125-350 euros according to membership	
S.1	Patient safety in professional education and training	Promoting excellence: Standards for medical education and training	https://www.gmc.co.uk/2020/02/20/promoting-excellence-standards-for-medical-education-and-training/	Standards	GMC	Setting excellence standards for medical education and training sets out ten standards that we expect organisations responsible for educating and training medical students and doctors in the UK to meet. Patient safety is at the core of these standards.	English	Free	
S.1	Patient safety in professional education and training	National patient safety syllabus 2.0: Training for all NHS staff	https://www.npsa.nhs.uk/2020/02/20/national-patient-safety-syllabus-2-0-training-for-all-nhs-staff/	Syllabus	Academy of Medical Royal Colleges	The syllabus is designed for all NHS staff and is structured to provide both a technical understanding of safety in complex systems and a suite of tools and approaches that will: <ul style="list-style-type: none"> • Build safety for patients • Reduce the risks created by systems and practices • Develop a genuine culture of patient safety. 	English	Free	
S.1	Patient safety in professional education and training	Textbook of Patient Safety and Clinical Risk Management	https://link.springer.com/book/10.1007/978-3-330-71000-3	Textbook	Springer	Healthcare professionals must acquire proficiency in producing evidence that can be used for making improvements to patient safety and managing the risks of adverse events. In this textbook, definitions of terms and concepts will be the content of the first section of this chapter. The second section will show the current picture regarding patient safety and why a greater number of valuable clinical guidelines are needed. The third section will discuss the current evidence base and how to apply practice.	English	Free	2.4
S.1	Patient safety in professional education and training	AMHQ PNet Training Catalog	https://www.amhq.org/2020/02/20/amhq-pnet-training-catalog/	Training Catalog	Agency for Healthcare Research and Quality	The AMHQ PNet Training Catalog can help to use resources for healthcare professionals across all settings of care and specialties looking for education opportunities to further their knowledge of patient safety practices and principles. Some training opportunities are available as in-person meetings while others are conducted via live or archived webinars. Opportunities are updated on a monthly basis and can be searched by critical fields such as event location, fee, and CME/ACCME availability.	English	Free	
S.1	Patient safety in professional education and training	Courses (EMHS)	https://ohhs.org/course/	Training courses	Clinical Human Factors Group	Collection of training courses from the EMHS	English	Free	
S.2	Centres of excellence for patient safety education and training	Quality and Safety in Healthcare	https://www.who.int/courses/doc/9789241562626	Course	Imperial University	On our MSc, you will learn the practice and theories of healthcare quality and patient safety from our academics, who are leading world-class research in this area and from experts in quality and patient safety. Among the topics you will study are quality improvement methods, the influences on patient safety, methods and knowledge in the discipline of ergonomics and human factors, and the use of quality tools for quality improvement and patient safety. You will also be supported to develop key transferable skills in critical appraisal, academic writing, project management and communication.	English	9,250 pounds for UK/EEA, 21,535 pounds for international	
S.2	Centres of excellence for patient safety education and training	PGCert in Patient Safety	https://www.ox.ac.uk/admissions/graduate/courses	Course	Oxford University	The PGCert in Patient Safety is designed to provide an understanding of: <ul style="list-style-type: none"> the basic science behind quality improvement methods the techniques for implementing, sustaining and measuring systems change the techniques for exploring and evaluating the effect of different approaches to improving safety in healthcare. 	English	1,665 annual course fee for home, 7,850 pounds annual course fee for overseas	
S.2	Centres of excellence for patient safety education and training	Quality and Patient Safety Improvement	https://www.nottingham.ac.uk/graduate/courses/	Course	University of Nottingham	This unique degree programme develops your personal patient safety, human factors and quality improvement and how this applies to practice. You will benefit from a strong industrial placement, as each module offers a mix of classroom-based teaching and access to a comprehensive suite of real-world scenarios, designed by leading experts in learning. Our programme is designed by an interdisciplinary collaboration, involving leading academics in health science, business and human factors.	English	yet to be determined	
S.2	Centres of excellence for patient safety education and training	Patient Safety	https://learning.bmi.com/learn/course-intro-004	Online course	BMI Learning	Understand the importance of patient safety and understand how errors may occur Reduce errors and the clinicians' responsibility in ensuring patient safety Know what changes are needed to primary care to improve patient safety Know what the barriers are to patient's understanding of risk and how to best their understanding Understand how patient understanding and education improve the quality and safety of healthcare systems Understand what drugs and clinical settings carry particular risks Understand the causes and frequency of drug errors and how to reduce their incidences in clinical practice.	English	BMI Subscription	
S.2	Centres of excellence for patient safety education and training	Patient Safety and Clinical Human Factors	https://www.ox.ac.uk/undergraduate/courses/	Online Course	Edinburgh University	This three year, part-time online MSc programme in Patient Safety and Clinical Human Factors aims to support any graduate health care professional – ranging from surgeons and anaesthetists – in using evidence-based tools and methods to improve the reliability and safety of everyday health care systems and processes.	English	5,735 pounds	
S.2	Centres of excellence for patient safety education and training	MHS in Health Care Quality	https://www.healthcarequality.com/2020/02/20/mhs-in-health-care-quality/	Online course	George Washington University	The online Master of Science in Health Systems (MHS) in Health Care Quality was developed for health care professionals seeking to become patient safety and quality leaders and meet the growing demand for health-based care.	English	35,280 dollars	
S.2	Centres of excellence for patient safety education and training	MSc in Clinical Operations and Healthcare Management	https://www.healthcarequality.com/2020/02/20/mhs-in-health-care-quality/	Online course	George Washington University	Learn what it takes to lead a healthcare system that health care effective, cost-efficient, and improves overall patient care. With a focus on population health care, you'll learn ways to improve your own community's health for optimal professional practice, lead efforts in quality improvement, and understand the technological tools needed to conduct effective data analysis for strategic development.	English	35,280 dollars	
S.2	Centres of excellence for patient safety education and training	MSc Patient Safety	https://www.imperial.ac.uk/2020/02/20/msc-patient-safety/	Online course	Imperial College London	This course is well suited for healthcare professionals, managers, policymakers and industry representatives. Our aim is to equip you with the skills to improve patient safety, considering the implications of interdisciplinary working in low-resource settings, particularly in developing countries and low-income countries, such as international pandemics.	English	6,300 pounds home rate, 10,600 per year for overseas	
S.2	Centres of excellence for patient safety education and training	Patient Safety Quality and Leadership	https://www.healthcarequality.com/2020/02/20/patient-safety-quality-and-leadership/	Online Course	Johns Hopkins Medicine - Armbrist Institute for Patient Safety and Quality	The program's 13 modules, which can be taken anywhere and at any time, delve into core concepts in such areas as: <ul style="list-style-type: none"> • Fostering a culture of patient safety • Delivering patient-centered care • Designing safer care delivery systems • Enhancing the interdisciplinary teamwork and communication • Sustaining change • Tools and strategies for identifying and mitigating hazards. 	English	400 dollars	
S.2	Centres of excellence for patient safety education and training	Transforming Healthcare Leadership and Management	https://7f1m.cml.ac.uk/patient-safety-and-risk-004	Online course	Transforming Healthcare Leadership and Management	This online programme provides comprehensive coverage of all of the knowledge and skills required by today's patient safety and risk management professionals. It explores how healthcare leaders fulfil their broader and complex remit to create a challenging safety environment. The programme also shows you, in considerable depth, how to set up effective error reporting systems and lead investigations of adverse incidents in order to learn from harm and reduce the likelihood of recurrence.	English	800 pounds	
S.2	Centres of excellence for patient safety education and training	Master's in Patient Safety & Healthcare Quality	https://www.duke.edu/2020/02/20/master-s-in-patient-safety-and-healthcare-quality/	Hybrid	Duke-NUS Medical School	A highly reliable patient safety ensures care that is consistently of high quality and safety. In ensuring high reliability, the emphasis on patient safety and healthcare quality is critical. These are the program's aims. The program aims to build healthcare leadership capability globally. With a focus on population health care, you'll learn ways to improve your own community's health for optimal professional practice, lead efforts in quality improvement, and understand the technological tools needed to conduct effective data analysis for strategic development.	English	Grad Cert: \$50,120, 600 Grad Dip: \$69,340, 800 Master: \$103,540,000	
S.3	Patient safety competencies as regulatory requirements	AMHQ's Core Competencies	https://www.amhq.org/2020/02/20/amhq-core-competencies/	Framework	AMHQ	The AMHQ focuses on 3 core competencies: health systems research, practice improvement, data & analytics	English	Free	
S.3	Patient safety competencies as regulatory requirements	From Science to Service: A Framework for the Practice of Patient Safety Research into Practice	https://www.nhs.uk/2020/02/20/from-science-to-service-a-framework-for-the-practice-of-patient-safety-research-into-practice/	Framework	AMHQ	A conceptual framework was developed to help maximize and accelerate the transfer of research results from AMHQ's patient safety research portfolio to health care delivery. The framework can be used by the patient safety portfolio as well as individual researchers to develop plans, tools, and strategies for moving research into practice.	English	Free	
S.3	Patient safety competencies as regulatory requirements	National Patient Safety Education Framework	https://www.npsa.nhs.uk/2020/02/20/national-patient-safety-education-framework/	Framework	Australian Commission on Safety and Quality in Healthcare	The National Patient Safety Education Framework is designed to provide a simple, flexible and accessible framework that identifies the knowledge, skills, behaviours, attitudes and performance indicators for health care workers in relation to patient safety.	English	Free	
S.3	Patient safety competencies as regulatory requirements	The Safety Competencies	https://www.patient-safety-education.org/2020/02/	Framework	Canadian Patient Safety Institute	The 2020 Safety Competency Framework (2nd Edition) is a simple, powerful and flexible framework that includes enabling competencies that can be adopted and adapted to diverse healthcare professions to design curricula to teach safety and quality for any sector of healthcare. It can also be a valuable resource to policy makers, regulators and accreditors to guide safety and quality.	English	Free	
S.3	Patient safety competencies as regulatory requirements	OSN Competencies	https://open.osn.gov.au/2020/02/20/osn-competencies/	Framework	Quality and Safety Education for Nurses	The overall goal for the Quality and Safety Education for Nurses (QSEN) project is to meet the challenge of preparing future nurses who will have the knowledge, skills and attitudes (KSAs) necessary to continuously improve the quality and safety of the healthcare system within which they work. Using the Institute of Medicine's competencies, QSEN Health and a National Advisory Board have defined quality and safety competencies for nursing and proposed targets for the knowledge, skills, and attitudes to be developed in nursing pre-licensure programs for each competency.	English	Free	
S.3	Patient safety competencies as regulatory requirements	The CanMEDS 2005 Physician Competency Framework	https://www.royalcollege.ca/2020/02/20/the-canmeds-2005-physician-competency-framework/	Framework	The Royal College of Physicians and Surgeons of Canada	The CanMEDS framework is a competency framework, a guide to the essential abilities physicians need for optimal patient outcomes. The seven CanMEDS roles, or domains, groups of competencies, are integrated by physicians on a daily basis in practice. Each competency is made up of elements of their own, and can be broken down into smaller components for teaching, learning, observation, interaction and assessment.	English	Free	
S.3	Patient safety competencies as regulatory requirements	Development of the Core Competencies for Patient Safety Research	https://7f1m.cml.ac.uk/patient-safety-and-risk-004	Framework	WHO	This document describes the process to develop the core competencies for patient safety research, a process that started in early 2008 with the setting up of the WHO Patient Safety Research Education and Training working group and ended in December 2008 with the establishment of consensus around the core competencies. These competencies were grouped into three main areas: the science of patient safety, the methodology needed to carry out patient safety research, and the knowledge translation on how to utilize research for policy change to improve patient safety.	English	Free	
S.4	Linking patient safety with appraisal system of health workers	Hardy Regime Self-Assessment Framework (HSR)	https://www.who.int/publications/item/9789241562626	Framework	WHO	The Hardy Regime Self-Assessment Framework is a systematic tool with which to obtain a situation analysis of hard regime conditions and their effects on patient safety.	English	Free	3.1, 5.5
S.4	Linking patient safety with appraisal system of health workers	IPAC Canada Core Competencies for Infection Control Professionals	https://www.ipac.ca/2020/02/20/ipac-canada-core-competencies-for-infection-control-professionals/	Guidance	Canadian Patient Safety Institute	This document lists IPAC Canada's core competencies for Infection Prevention and Control Professionals (IPC), which indicate the minimum knowledge, skills and attitudes required to practice safely and ethically as an IPC. The competency statements reflect expectations of a competent IPC; a competent IPC is one who is able to perform effectively in the roles and functions required by their job position and within the team and organization.	English	Free	3.3
S.4	Linking patient safety with appraisal system of health workers	A Self-Assessment Guide for Health Care Organizations	https://7f1m.cml.ac.uk/patient-safety-and-risk-004	Guidance	International Finance Corporation	This Guide is designed to assist health care organizations in identifying metrics to reach 'international standards' of quality and patient safety. It will enable them to conduct an organizational self-assessment to identify how well they are meeting defined standards in five key areas. The Guide will help them to gauge how much effort they need to make - and in which areas - to reach international standards.	English	Free	
S.4	Linking patient safety with appraisal system of health workers	Core competencies for infection prevention and control professionals	https://www.who.int/publications/item/9789241562626	Guidance	WHO	The purpose of this document is to define who in the IPC professional and identify what core competencies are needed to be qualified in this discipline and at what level, that is, junior versus senior. The ultimate goal of this document is to support the development of the specific academic and training programmes for IPC professionals, increase efforts to promote workers' health, and reduce health inequalities by implementing updated policies, plans, and regulations.	English	Free	3.3
S.4	Linking patient safety with appraisal system of health workers	Guidelines: Incentives for Health Professionals	https://www.who.int/publications/item/9789241562626	Guidance	WHO	The development and implementation of incentive schemes in health care is an emerging field. A wide variety of measures have been implemented using financial and non-financial approaches linked to various performance outcomes and targeting a range of health care professionals. This provides an evaluation of various incentive schemes.	English	Free	
S.4	Linking patient safety with appraisal system of health workers	Incentive Mechanism Supporting National Implementation of Core Competencies of Infection Prevention and Control Professionals	https://www.who.int/publications/item/9789241562626	Manual	WHO EMRO	This practical manual is designed to support implementation of the World Health Organization (WHO) Guidelines on core competencies of infection prevention and control professionals (IPC) at the national level, with special focus on countries with limited resources.	English	Free	3.1, 5.5, 7.4
S.4	Linking patient safety with appraisal system of health workers	SOPS Hospital Survey	https://www.who.int/publications/item/9789241562626	Tool	Agency for Healthcare Research and Quality	The Agency for Healthcare Research and Quality (AHRQ) and Medical Errors Workgroup of the Quality Interagency Coordination Task Force (EHR) sponsored the development of the Hospital Survey on Patient Safety Culture. The hospital survey is designed specifically for hospitals and asks for their opinions about the culture of patient safety at their hospital.	English, Spanish	Free	6.1
S.4	Linking patient safety with appraisal system of health workers	WHO Patient Safety Assessment Tool	https://www.who.int/publications/item/9789241562626	Tool	WHO	This is a checklist of practices known to promote safer care and reduce the risk of adverse events. Hospitals can use this tool to evaluate whether they have safe practices in place and to determine which safe practices they may need to implement or expand.	English	Free	
S.4	Linking patient safety with appraisal system of health workers	One 2.0 High Reliability Assessment	https://www.who.int/publications/item/9789241562626	Tool	The Joint Commission	The Assessment consists of a series of questions for senior leaders to reflect upon and come to consensus on where they believe their organization is today. Results of the assessment indicate the organization's level of maturity across 14 areas of performance.	English	Free	6.1
S.4	Linking patient safety with appraisal system of health workers	Patient Safety Management Systems a Checklist	https://www.who.int/publications/item/9789241562626	Toolkit	Australian Commission on Safety and Quality in Healthcare	The checklist has been provided to assist members of governing bodies and their CEOs, managers/clinical managers, clinicians and others in their understanding of the part they play in a patient management safety system.	English	Free	
S.5	Safe working environment for health workers	Workers' health: global plan of action	https://www.who.int/publications/item/9789241562626	Action Plan	WHO	The goal of this Plan of Action is to strengthen the health sector's response, in coordination with other stakeholder sectors, in order to provide comprehensive workers' health services, improve workers' environment, increase efforts to promote workers' health, and reduce health inequalities by implementing updated policies, plans, and regulations.	English, Spanish, Portuguese, French	Free	
S.5	Safe working environment for health workers	World Patient Safety Day goals 2020-21	https://www.who.int/publications/item/9789241562626	Action plan	WHO	The World Patient Safety Day goals are addressed to health care providers and managers at the health care facility level and are formulated as the statement of best practice. Each goal is accompanied by suggested actions based on existing WHO guidance, which could facilitate improvement in the focused safety practice domain. Links to available WHO resources on the subject are provided with each goal.	English	Free	

