

Mapping of Emergency Nursing Diploma Curricular Competencies with Assessment Tools

This outline maps curricular competencies/objectives with the assessment tools and potential test type. Tests will emphasize certain parts of the outline, and no single test will include questions on all aspects. Questions may include content that is not included in this outline.

Construct	Domain	Module	Code	Level	Performance indicator (Curriculum)	Page #	Learning Domain	Assessment Method				
							(1:Cognitive, 2:Skills, 3:Attitude)	MCQ - Part I Written	MCQ - Final Written	OSCE - Final Clinical	SOE - Final Clinical	
A1 Basic science		General Objectives	A1.1	Y2	Provide specialized knowledge and skills to contribute to the development of emergency care.	5	1,2,3		*	*	*	
		Pharmacological management of emergencies	A1.2	Y1	Understand principles of pharmacokinetics, pharmacodynamics, and drug-drug interactions.	13	1	*	*		*	
			A1.3		Discuss clinical pharmacology of anticoagulant and thrombolytic drugs.	13	1	*	*		*	
			A1.4		Principles of pharmacokinetics and pharmacodynamics	13	1	*	*		*	
			A1.5		Adverse drug reactions and drug interactions	13	1	*	*		*	
			A1.6		Recognize physiological changes occurring during life-threatening situations.	14	1	*	*		*	
		Pathophysiological changes in emergency nursing	A1.7	Y1	Understand the pathophysiology of disease processes commonly seen in emergency patients.	14	1	*	*		*	
			A1.8		Understand the inflammatory response and infection process.	14	1	*	*		*	
			A1.9		Discuss the fluid, electrolyte disturbance, and acid base balance imbalance.	14	1	*	*		*	
			A1.10		Explain the pathophysiology of shock.	14	1	*	*		*	
			A1.11		Introduction to pathophysiology adaptations and alteration in cellular function	14	1	*	*		*	
			A1.12		1)Body defense mechanisms 2) Inflammation and repair 3) Immunity 4) Fluid, electrolyte, and acid base balance and imbalance 5)Pathophysiology shock 6) System and associated pathophysiological problems: - Respiratory alteration - Cardiovascular alteration - Hematological disorders - Neurological Disorders - Gastrointestinal disturbance - Endocrine Disorders - Urinary Disorders - Motor, sensory disturbance - Immunologic and lymphatic disorders - Reproductive disorders 8) Toxicological emergencies	14+15	1	*	*		*	
			A1.13		1) Alteplase for Acute Ischemic Stroke 2) Alteplase for Acute Myocardial Infarction 3) Alteplase for Pulmonary Embolism	15	1	*	*		*	
		Management of behavioral problems and psychosocial concepts	A1.14	Y1	Describe the relationship between stress and anxiety	15	1	*	*		*	
			A1.15		Developmental factors in effective coping responses - Stress - Anxiety - Dependency - Responses to loss	15	1	*	*		*	
			A1.16		General systems theory applied to individual and family coping responses	15	1	*	*		*	
			A1.17		Major coping risks associated with physical and or emotional illness - Major developmental issues - Control - Loss - Guilt	15+16	1	*	*		*	
		Epidemiology	A1.18		Describe the mechanisms and dynamics of disease transmission in populations and the risk factors that determine their distribution.	17	1	*	*		*	
		Trauma assessment and nursing consideration	A1.19		Integrate the knowledge gained from pathophysiologic effects of disease in conducting the health assessment for different body systems.	19	1		*		*	
		Clinical practicum in emergency nursing II	A1.20	Y2	Understand the principles of electrocardiogram (ECG) and 12 Leads ECG.	22	1		*		*	
			A2.1		Provide specialized knowledge and skills to contribute to the development of emergency care.	5	1,2,3		*	*	*	

A2 Assessment & Diagnosis	General Objectives	A2.2	Y2	Implement a systematic patient assessment.	5	2			*	
	Foundation of emergency nursing	A2.3	Y1	1) Assessment: Head and Neck 2) Assessment: Visual Acuity 3) Assessment: Cardiovascular 4) Assessment: Thorax and Lungs 5) Assessment: Respiration 6) Assessment: Musculoskeletal and Neurologic 7) Pelvic Examination 8) Assessment: Abdomen, Genitalia, and Rectum 9) Assessment: Intake and Output 10) Assessment: Nutrition Screening 11) Assessment: Wound 13) Determination of Death: Advanced Practice	11+12	1,2	*	*	*	*
	Foundations of emergency nursing practicum I	A2.4	Y1	Obtains initial subjective and objective data of the trauma patient.	12	2			*	
		A2.5	Y1	Explain cardiopulmonary resuscitation techniques. 1) Systematic primary and secondary survey 2) Vascular access monitoring	12	1	*	*		*
		A2.6	Y1	1) Emergency Primary Assessment 2) Emergency Secondary Assessment 10) Blood Pressure (Systolic): Palpation 11) Apical Pulse 12) Pulse Oximetry 13) Pulsus Paradoxus Assessment 14) Cardiac Output Measurement 15) Cardiac Monitor Setup and Lead Placement 20) Electrocardiogram: 12 Lead	12+13	1,2	*	*	*	*
	Pharmacological management of emergencies	A2.7	Y1	Identify the drug dosage, prescription reading, and commonly used medical abbreviations.	13	1	*	*		*
		A2.8		Describe toxicological emergencies in pre-hospital settings.		1	*	*		*
		A2.9		Psychological factors affecting drug therapy		1	*	*		*
		A2.10		Toxicological emergencies pre-hospital		1	*	*		*
	Management of behavioral problems and psychosocial concepts	A2.11	Y1	Identify the stages of grieving	15	1	*	*		*
		A2.12		Recognize the emotional implications of transferring a patient from the critical unit		1	*	*		*
		A2.13		Discuss the physical and emotional responses to stress, including local and general adaptation syndromes, mind-body interaction, anxiety, coping, and defense mechanisms.		1	*	*		*
		A2.14		Assessment of mental health emergencies - Anxiety and panic reaction - Ineffective coping and situational crisis - Depression - Suicidal behavior		1,2	*	*	*	*
	Trauma assessment and nursing consideration	A2.15	Y2	Demonstrate knowledge of health assessment skills.	19	1		*		*
		A2.16		Comprehend the various components of comprehensive health assessment		1		*		*
		A2.17		Determine the four basic assessment techniques of physical examination and their mnemonic sequences.		1		*		*
		A2.18		Describe the primary and secondary survey for diagnosis and management of life-threatening injuries		1		*		*
		A2.19		1) Patient history 2) General approaches to physical examination 3) Assessment of treatment modalities' side effects 4) Assessment of nutritional states, spiritual and behavior changes 5) Pain assessment 6) Comprehensive system assessment (head-to-toe assessment) 7) Adapting assessment to special populations (child, infant, adult...) 8) Document quality of care issues associated with the trauma patient		1,2		*	*	*

A Medical expert	Clinical practicum in emergency nursing II	A2.20	Y2	1) Nurse-Patient Relationship 2) Assessment: General Survey 3) Emergency Primary Assessment 4) Emergency Secondary Assessment 5) Assessment: Orthostatic Vital Signs 6) Assessment: Nutrition Screening 7) Arterial Catheter Radial Insertion: Advanced Practice 8) Arterial Catheter: Blood Sampling 9) Arterial Puncture: Arterial Blood Gas Sampling 10) Arterial Catheter Radial Insertion: Advanced Practice 11) Nursing Report	20	1,2		*	*	*		
		A2.21		Discuss the measures used to control esophageal bleeding.	22	1		*		*		
		A2.22		Describe the route for blood glucose monitoring technique and self-injection of insulin.	22	1		*		*		
		A2.23	Y2	1) The principles of electrocardiogram (ECG) and 12 Leads ECG 2) Nasogastric tube intubation and removal 3) Esophageal bleeding 4) Enteral and parenteral nutrition 5) Blood glucose monitoring technique and self-injection of insulin 9) Glasgow Coma Scale measurement	22	1,2						
		A2.24		Discuss the triage process for the pediatric patient and the difference between emergent and urgent pediatric illness and/or injury.	23	1		*		*		
		A2.25		Discuss the top ten pediatric emergencies.		1		*		*		
		A2.26	Y2	1) Emergency Primary Assessment 2) Emergency Secondary Assessment 3) Code Management 4) Airway Positioning 5) Airway Foreign Object Removal 6) Esophageal Foreign Body Removal 7) Nasal Foreign Body Removal 8) External Defibrillation 9) Aspiration Precautions	23	1,2		*	*	*		
		Foundation of emergency nursing	General Objectives	A3.1	Y2	Provide specialized knowledge and skills to contribute to the development of emergency care.	5	1,2,3		*	*	*
				A3.2		Apply management principles for acutely ill and traumatized patients, including multiple casualties in different health settings.	5	1,2		*	*	*
	A3.3				Incorporate advanced life support skills in the management of traumatized ill patients.	5	1,2		*	*	*	
	A3.4				Understand the implications of hazards and risk potential risk when managing emergencies.	5	1		*		*	
	A3.5		Y1	5) Basics of first aid emergency nursing care 6) Stabilization of injuries 7) Pain management and sedation 8) End-of-life care	11	1,2		*	*	*	*	
	A3.6		Y1	12) Pain Relief 14) Life-Sustaining Therapy: Withholding and Withdrawing 15) Symptom Management at End of Life 16) Grief Support for Patients and Family	12	1,2		*	*	*	*	
A3.7	Y1		Identify the main elements in emergency resuscitation.	12	1		*	*		*		
A3.8	Y1		Describe different therapeutic airway management options.	12	1		*	*		*		
A3.9	Y1		Describe principles of wound and burn management.	12	1		*	*		*		
A3.10	Y1		Explain cardiopulmonary resuscitation techniques.	12	1		*	*		*		
A3.11	Y1		Explain cardiopulmonary resuscitation techniques. 3) Airway management and ventilation	12	1		*	*		*		
A3.12	Y1		Calculate and administer medications safely for care of patients undergoing invasive procedures	12	1		*	*		*		
A3.13	Y1		1) Wound management 2) Burn management 3) Cardiopulmonary resuscitation	12	1,2		*	*	*	*		

	Trauma assessment and nursing consideration	A3.26	Y2	1) Ambulation Aids: Measuring and Fitting 2) Automated External Defibrillator (AED) 3) Chest Physiotherapy: Postural Drainage 4) Ear Irrigations 5) Ophthalmic Foreign Body Immobilization 6) Epistaxis: Anterior Packing 7) Epistaxis: Insertion of Balloon Catheters 8) Epistaxis: Posterior Packing 9) Immobilization Devices 10) Lumbar Puncture 11) Ophthalmic Foreign Body Immobilization 12) Spinal Immobilization: Cervical Collar, Backboard, and Vacuum Mattress 13) Cervical Collar: Management 14) Cervical Tongs and Halo Pins: Site Care 15) Cervical Traction Maintenance 16) Skin Traction 17) Splinting: General Principles 18) Splinting: Traction Splints 19) Splinting: Vacuum Splints 20) Restraint Application and Monitoring 21) Thoracentesis 22) Emergency Needle Thoracentesis 23) Chest Tube Insertion 24) Chest Tube Removal 25) Chest Tube: Closed Drainage Systems 26) Paracentesis 27) Preoperative Care	21	1,2	*	*	*	*		
		A3.27	Y2	Discuss enteral and parenteral nutrition.	22	1	*	*		*		
		A3.28		Explain urinary bladder catheterization and the management of patients undergoing suprapubic bladder drainage.	22	1	*	*		*		
		A3.29		6) Catheterization of the urinary bladder 7) Management of patient undergoing supra pubic bladder drainage 8) Application and removal of a cast	22	1,2	*	*	*	*		
		A3.30	Y2	1) Electrocardiogram: 12 Lead 2) Electrocardiogram: Right Precordial and Left Posterior Leads 3) Esophagogastric Tamponade Tube: Insertion and Care 4) Feeding Tube: Verification of Placement 5) Feeding Tubes: PEG, Gastrostomy, and Jejunostomy Care 6) Gastric Lavage for Removal of Toxic Substances 7) Feeding Tube: Medication Administration 8) Fecal Impaction Removal 9) Massive Transfusion 10) Blood Glucose Monitoring 11) Peritoneal Lavage: Diagnostic: Advanced Practice 12) Specimen Collection: Timed Urine Specimen 13) Specimen Collection: Urine from Indwelling Catheter 14) Specimen Collection: Urine Screening for Glucose, Ketones, Protein, Blood, pH, and Specific Gravity 15) Urinary Catheter: Closed Continuous Irrigation 16) Urinary Catheter: Indwelling Catheter Care 17) Urinary Catheter: Indwelling Catheter Removal 18) Urinary Catheter: Straight and Indwelling Catheter Insertion (Female) 19) Urinary Catheter: Straight and Indwelling Catheter Insertion (Male) 20) Urinary Catheter: Suprapubic Catheter Care 21) Restraint Application and Monitoring	22	1,2	*	*	*	*		
		A3.31	Y2	Explain the approaches to acute abdominal and ectopic pregnancy.	23	1	*	*		*		
		A3.32		Describe the therapy for sepsis during pregnancy and postpartum hemorrhages.		1	*	*		*		
		A3.33		Explain different trauma and cardiopulmonary resuscitation in pregnancy		1	*	*		*		
		A3.34		Discuss the top ten pediatric emergencies.	23	1		*		*		
		A3.35		1) Approach to the acute abdomen in pregnancy 2) Management of ectopic pregnancy 3) Postpartum hemorrhage 4) Sepsis during pregnancy 5) Thromboembolism in pregnancy 6) Diabetic ketoacidosis in pregnancy 7) Amniotic fluid embolism 8) Trauma in pregnancy 9) Cardiopulmonary resuscitation in pregnancy 10) Pediatric medical emergency 11) Pediatric resuscitation 12) Pediatric orthopedics 13) Pediatric surgical emergencies 14) Pediatric toxicology 15) Pediatric trauma	23	1	*	*		*		
		A4 Health promotion & illness prevention	General Objectives	A4.1	Y2	Plan for health promotion, prevention of diseases, and recovery from emergency and disasters	5	1		*		*
				A4.2		Apply infection control measures when caring for emergency/disaster patients and their families	5	1,2		*	*	*
			Foundation of emergency nursing	B1	Y1	Use professional/therapeutic communication techniques in nursing practice.	11	2			*	
				B2		Identify communication and interpersonal relationships in an emergency.	15	1	*	*		*
			Management of behavioral problems and psychosocial concepts	B3	Y1	Therapeutic communication skills	15	1,2	*	*	*	*
B4	2) Communication with Anxious Patients 3) Communication with Depressed Patients			16		2			*			
B5	Y1		Describe the foundation of nursing informatics as an emerging field in the nursing profession	23	1		*		*			
B6			Identify key factors and legislative organizations that help shape nursing informatics	23	1		*		*			

B Communicator	Nursing informatics	B7	Y2	Discuss evolving models and theories of nursing informatics that define roles and competencies.	23	1		*		*
		B8		Explain the implications of nursing informatics for nursing practice, administration, education, and research.	24	1		*		*
		B9		Demonstrate skills in the acquisition and retrieval of nursing information using health information systems within the institution and through the Internet and varied electronic resources.	24	1,2		*	*	*
		B10		Apply approaches that safeguard data and information integrity while maintaining privacy and confidentiality	24	2			*	
		B11		1) Introduction of nursing informatics and overview 2) Nursing informatics goals, standards, and scope of practice 3) Nursing informatics competencies (i.e., computer literacy skills, informatics literacy skills, etc.) 4) Models and theories of informatics 5) Internet, search engines, and electronic databases and resources 6) Selection of health care information systems 7) System implementation, maintenance, and development 8) Data integrity, security, and confidentiality 9) Intranet, extranet, and network integration 10) Information technology in patient education 11) Integrating computers and information technology in nursing education and practice	24	1		*		*
	Professional performance	B12	Y2	Differentiate between effective versus ineffective communication	25	1		*		*
		B13		Discuss the meaning of active listening.		1		*		*
		B14		Identify three skills necessary for active listening.		1		*		*
		B15		Describe ways patients and coworkers benefit when nurses communicate effectively.		1		*		*
		B16		Discuss the difference between "I" and "You" statements.		1		*		*
		B17		Identify skills required for therapeutic communication.		1		*		*
	C Collaborator	Leadership and management	C1	Y2	Collaborate with multidisciplinary healthcare team members in prioritizing and coordinating quality/cost-effective healthcare.	24	2			
		Professional performance	C2	Y2	Provide care in an inter-professional environment	25	2			
	D Manager/ Leader	General Objectives	D1	Y2	Utilize an evidence-based and research-supported approach in evaluating nursing practice within an emergency department.	5	1,2			
			D2	Y2	Apply leadership concepts in emergencies	5	1,2			
			D3	Y2	Apply quality improvement concepts in evaluating emergency nursing care.	5	1,2			
		Foundation of emergency nursing	D4	Y1	Demonstrate flexibility and innovation in the application of specialist knowledge and skills appropriate to the area of practice.	11	2			
D5			Y1	Differentiate the potential stressors in the emergency care environment and apply strategies to minimize their effects on the patient and families.	11	1		*	*	
D6			Y1	Implement the basic principles of time management in the performance of nursing activities for patients presenting to the Emergency Department.	11	1		*	*	
D7			Y1	1) Emergency room nurse - Credentialing - Advanced practice role 2) Stressors in the emergency care environment - Identifying stressors - Stress coping - Emergency room psychosis 3) Time management in the Emergency Department - Teamwork - Pattern and routine - Acuity index - Triage system 5) Crisis management	11	1				
Pharmacological management of emergencies		D8	Y1	Understand the legal and ethical aspects of drug administration for patients presenting to the Emergency Department.	13	1		*	*	
Ethics in nursing and dimension of care		D9	Y1	Discuss the impact of current issues related to healthcare delivery.	16	1		*	*	
		D10		Analyze the components of organizational structure and culture.	24	1		*		*
		D11		Apply theories of effective leadership and management within selected healthcare arenas.		1		*		*
		D12		Utilize the skills of nursing process, critical thinking, ethical decision-making, communication, and therapeutic nursing intervention in managing culturally competent, cost-effective care of groups of clients across the wellness/illness continuum.		1,2				
		D13		Demonstrate leadership and management of a care-giving team comprised of individuals with varied cultural backgrounds and varied levels of clinical knowledge and competencies.		2			*	

	Leadership and management	D14	Y2	Utilize skills of inquiry and research as a means to enhance knowledge base, facilitate change, and improve quality of care.		2					
		D15		Demonstrate professional accountability for effective leadership in nursing practice.		2,3					
		D16		Contribute to organizational strategic planning and its implementation at different levels within healthcare organizations.		2					
		D17		1) Organizational structure and culture 2) Application of leadership and management theories 3) Organizational and personal mission, vision, and goals 4) Critical thinking, problem solving, and effective decision making 5) Quality and risk management 6) Budgeting, cost, care delivery models, and staffing 7) Communication, motivation, and team building 8) Change and conflict management 9) Role transition and delegation 10) Strategic planning and strategic management 11) Career planning	24+25	1,2					
	Professional performance	D18		Assume responsibility for personal professional development.	25	3					
		D19	Y2	Initiate independent learning activities.	25	2					
E Scholar	Foundations of emergency nursing practicum I	E1	Y1	Describe steps of the primary and secondary survey to diagnose and manage life-threatening injuries.	12	1	*	*		*	
		E2		Y1	Calculate the measures of morbidity, mortality, incidence, and prevalence.	17	1	*	*		*
			E3	Y1	Assess the validity and reliability of diagnostic and screening tests.	17	1	*	*		*
			E4	Y1	Explain the different mechanisms used to describe disease prognosis in quantitative terms for groups of patients.	17	1	*	*		*
			E5	Y1	Assess the efficacy of preventive and therapeutic measures via randomized trials.	17	1	*	*		*
	Epidemiology		E6	Y1	Conduct epidemiological study designs (cohort, cross-sectional, retrospective, and prospective).		2				
			E7		Differentiate between association and causation.		1	*	*		*
			E8		Identify potential biases, confounders, and interacting factors in an epidemiological study		1	*	*		*
			E9		Explain the role of genetic and environmental factors in disease causation		1	*	*		*
			E10		Apply epidemiologic methods to evaluate screening programs.		1				
			E11		Identify the sources of information on disease occurrence.		1	*	*		*
			E12		Critique medical and health research studies.		1				
			E13		1) Definition of epidemiology and health 2) Dynamics of disease transmission 3) Infectious disease epidemiology	17	1	*	*		*
			E14		Measuring the occurrence of disease		1				
			E15		Assessing the reliability and validity of diagnostic and screening tests		1				
			E16		Assessing the efficacy of preventive and therapeutic measures through randomized trials		1				
			E17		1) Cohort studies 2) Case control and cross-sectional studies 3) Estimating risk determining association 4) Estimating the potential for prevention 5) From association to causation: deriving inferences from epidemiologic studies 6) Bias, confounding, and interaction 7) Roles of genetic and environmental factors in disease causation 8) Ethical and professional issues in epidemiology		1	*	*		*
	Biostatistics		E18	Y1	Demonstrate familiarity with statistical terminology and the purpose of statistics	17	1	*	*		*
			E19		Identify ways of organizing data	17	1	*	*		*
			E20		Recognize measures of central tendency and variability.	17	1	*	*		*
			E21		Demonstrate an understanding of the analysis of statistical data within the research context.	17	1	*	*		*
			E22		Provide necessary statistical background for analyzing data and drawing inferences from that analysis.	18	1	*	*		*
			E23		Discuss logic of hypothesis testing.	18	1	*	*		*

	Introduction to research and evidence based practice	E24	Y1	1) Descriptive statistics, frequencies, shapes, measures of central tendency 2) Univariate descriptive statistics, measures of variability, range standard deviation scores within a distribution, Z scores standardized distribution 3) Bivariate descriptive statistics 4) Inferential statistics, probability, sampling distribution, hypothesis testing 5) Power analysis, Types 1 and II errors, level of significance/critical regions, confidence interval, one-tailed and two-tailed tests, and parametric tests 6) Bivariate inferential statistics, t tests for independent groups, paired t tests (dependent groups) 7) ANOVA, between versus within groups, nonparametric tests, Chi square test for independence, bivariate inferential statistics, Pearson r as inferential testing.	18	1	*	*		
		E25	Y2	Define the basic concepts of research methodology.	19	1		*		
		E26		Describe the different research designs.		1		*		
		E27		Describe the scientific process and its use in nursing research.		1		*		
		E28		Design a research proposal project.		1		*		
		E29		Explain the steps of the research process in the proposal and/or conduct of a circumscribed nursing research project.		1		*		
		E30		Identify research problems and literature review process related to nursing practice.		1		*		
		E31		Compare and contrast research designs.		1		*		
		E32		Discuss appropriate statistical techniques in analysis of data.		1		*		
		E33		Critique current studies of nursing practice.		1		*		
		E34		Describe the utilization of research findings		1		*		
		E35		Define the historical perspective of evidence based practice.		1		*		
		E36		Define and apply evidence based nursing practice principles identified through nursing research.		1		*		
		E37		1) Overview of nursing research 2) Research methodology and process 3) Research designs 4) Data collection and analyses 5) Evidence based research and application		1		*		
F Health advocate	Professional performance	F1	Y2	Advocate for the health and safety of patients.	25	2				
G Professional	General Objectives	G1	Y2	Understand the professional issues influencing emergency nursing and the wider nursing	5	1		*		
		G2		Manage ethical issues concerning emergency/disaster care of patients and their families in accordance with Saudi Arabia's rules and regulations.	5	1		*		
	Foundation of emergency nursing	G3	Y1	Comprehend the functions and responsibilities of the professional emergency nurse.	11	1	*	*		
		G4		1) Emergency room nurse - Scope of practice - Professionalism and ethics - Legal responsibility - Professional development	11	1	*	*		
	Ethics in nursing and dimension of care	G5	Y1	Examine the nature and role of ethical theories in guiding sound ethical decision making in workplace settings.	16	1	*	*		
		G6		Discuss the ethical and legal contexts of professional nursing practice.	16	1	*	*		
		G7		Examine key ethical issues occurring in nursing and related health care contexts	16	1	*	*		
		G8		Discuss processes for achieving desired moral outcomes in nursing and healthcare domains.	16	1	*	*		
		G9		Analyze conflicting duties and rights inherent in moral dilemmas.	16	1	*	*		
		G10		Use ethical reasoning to synthesize standards of practice, ethical principles, and legal/regulatory requirements in the resolution of ethical dilemmas.	16	1	*	*		
		G11		Discuss relevant ethical issues to traumatized patients.	16	1	*	*		
		G12		1) Introduction to moral and legal concepts 2) Credentialing and licensing 3) Autonomy and paternalism 4) Life and death 5) Public health 6) Ethical issues related to emergency situations	16	1	*	*		