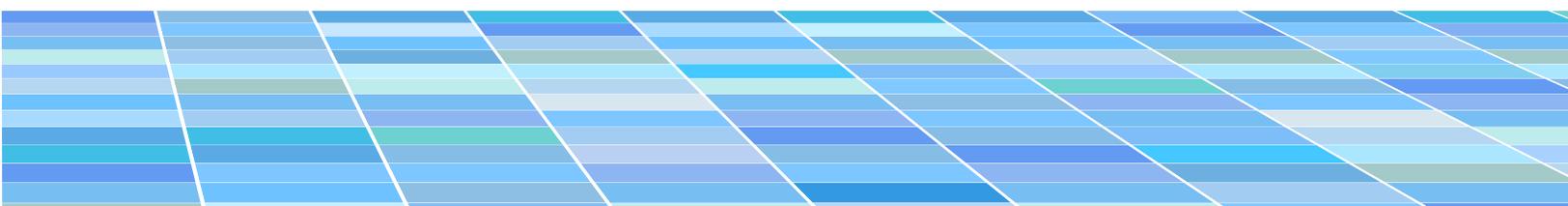# MLA - Competencies That can be Simulated

Category 1: Safe Work Practices

Practice Domain: ≤ 80% of curriculum can use simulation for assessment (maximum)		Can simulation be used for assessment?
1.05	Uses laboratory safety devices, e.g. biological safety cabinet, fume hood, laminar flow cabinet, safety pipetting device, safety container and carrier, safety shower, eye wash station	Yes
1.06	Labels, dates, handles, stores and disposes chemicals, dyes, reagents and solutions according to legislation, e.g. WHMIS	Yes
1.07	Handles and disposes sharps	Yes
1.08	Stores, handles, transports and disposes biological and other hazardous materials according to legislation	Yes
1.09	Uses disinfection and sterilization methods	Yes
1.10	Minimizes potential hazards related to disinfection/sterilization methods	Yes
1.11	Applies measures in response to laboratory accidents/incidents	Yes
1.12	Applies spill containment and clean up procedures for biological and other hazardous materials	Yes
1.13	Responds appropriately to workplace emergencies	Yes
1.14	Reports and documents all incidents related to safety and personal injury	Yes

Category 2: Data and Specimen Collection and Handling

Practice Domain: ≤ 70% of curriculum can use simulation for assessment (maximum)		Can simulation be used for assessment?
2.01	Demonstrates fundamental knowledge of medical terminology, physiology, anatomy and disease processes	Yes
2.02	Verifies relevant information is provided for test request	Yes
2.03	Provides information to the client on specimen collection, transportation and storage	Yes
2.04	Confirms the identity of the patient and performs venipuncture and capillary blood collection to obtain appropriate samples for laboratory analysis	Yes
2.05	Performs sample collection and chain of custody procedures relating to specimens with legal implications	Yes
2.07	Delivers specimens taking into account priority and stability	Yes
2.08	Assesses specimen suitability for testing	Yes
2.11	Adheres to guidelines for specimen retention, storage, transportation and disposal	Yes
2.14	Prepares documentation, packages specimens for shipping, seals and labels shipping containers in accordance with Transportation of Dangerous Goods (TDG) regulations	Yes
2.15	Describes the role of the laboratory in point-of-care testing	Yes
2.16	Performs point-of-care techniques, identifies sources of interference and initiates corrective action as delegated	Yes

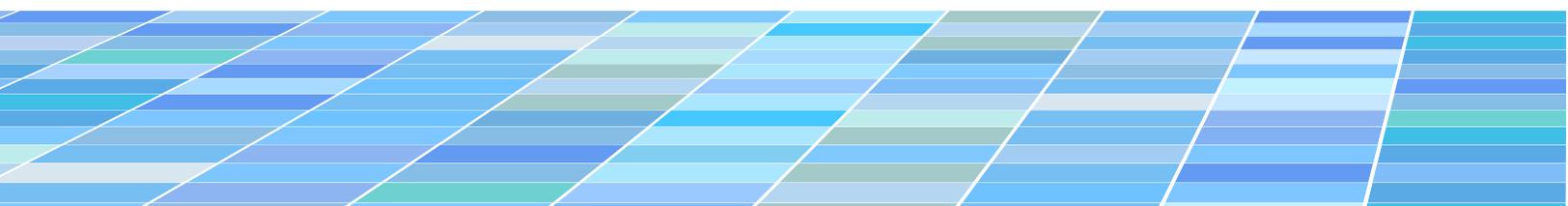## Category 3: Pre-Analytical Processes

Practice Domain: ≤ 75% of curriculum can use simulation for assessment (maximum)		Can simulation be used for assessment?
3.02	Prepares smears manually or using automated equipment	Yes
3.03	Performs routine staining and cover slipping either manually or using automated equipment, e.g. Jenner-Giemsa, Gram, Wright, Hematoxylin and Eosin, Papanicolaou, Leishman	Yes
3.04	Selects appropriate culture media, inoculates and incubates specimens using aseptic technique	Yes

Category 4: Reagent Preparation

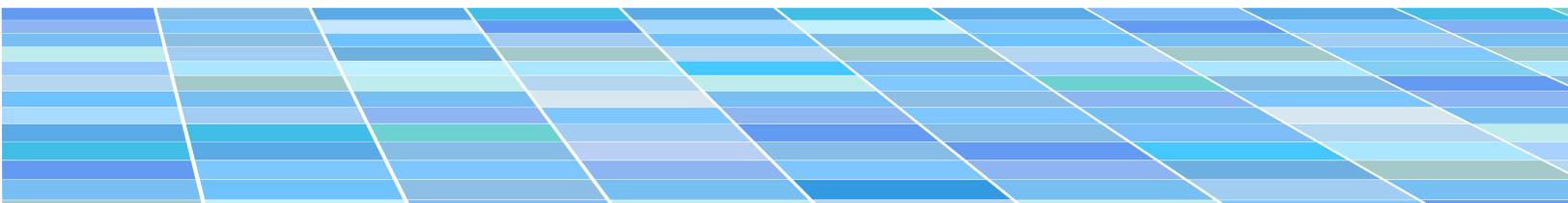| Practice Domain: ≤ 100% of curriculum can use simulation for assessment (maximum)		Can simulation be used for assessment?
4.01	• Prepares/stores reagents, solutions, stains or media to specifications • Performs calculations/dilutions for reagent preparation	Yes
4.02	Uses reagent preparation equipment, e.g. pH meter, balance, autoclave	Yes
4.03	Cleans glassware according to specifications	Yes

Category 5: Communication and Interaction

Practice Domain: ≤ 40% of curriculum can use simulation for assessment (maximum)		Can simulation be used for assessment?
5.01	Practises effective communication with colleagues, patients/clients and other health care professionals: • Active listening • Verbal communication • Non-verbal communication • Written communication • Conflict management • Identifies barriers to effective communication • Uses technology appropriately to facilitate communication	Yes

Category 6: Quality Management

Practice Domain: ≤ 75% of curriculum can use simulation for assessment (maximum)		Can simulation be used for assessment?
6.01	Demonstrates knowledge of quality systems essentials (QSE)	Yes
6.03	Prepares and runs quality controls/standards on equipment, to be validated by a medical laboratory technologist	Yes
6.04	Assists in updating procedures and protocols, as well as other reference information and communication	Yes
6.05	Participates in workflow analysis to identify issues and solve problems	Yes
6.07	Performs and documents preventative maintenance and reagent changes, according to established protocols	Yes
6.10	Demonstrates knowledge of risk management	Yes
6.11	Participates in internal and external quality assurance activities, e.g. proficiency testing, audits, accreditation	Yes
6.12	Demonstrates knowledge of inventory maintenance	Yes
6.13	Demonstrates information management skills, e.g. computer, laboratory information systems and related technology	Yes

Category 7: Professional Practice

Practice Domain: ≤ 50% of curriculum can use simulation for assessment (maximum)		Can simulation be used for assessment?
7.07	Recognizes the need for and participates in continuing education and training	Yes
7.09	Recognizes how ethical issues in the health care environment affect the medical laboratory assistant and clients	Yes
7.10	Demonstrates knowledge of the health care system, professional laboratory organizations and their responsibilities	Yes
7.11	Demonstrates knowledge of the determinants of health and their implications for the laboratory system	Yes
7.13	Demonstrates knowledge of interpersonal skills: • Recognizes signs of individual and group stress • Recognizes signs of patient stress • Exhibits empathy when assisting patients and colleagues	Yes

Category 8: Critical Thinking

Practice Domain: ≤ 50% of curriculum can use simulation for assessment (maximum)		Can simulation be used for assessment?
8.01	Demonstrates knowledge of a dynamic environment; adapts and responds to change	Yes
8.02	Recognizes that change initiated in one area may impact other areas of health care services	Yes
8.06	Demonstrates effective problem solving/trouble-shooting strategies and initiates appropriate follow up	Yes
8.07	Contributes to implementation strategies that integrate timelines, resource management and communication related to projects or research/studies	Yes
8.08	Demonstrates the ability to make evidence-based decisions	Yes