

Entrustable Professional Activities (EPAs)

List of EPAs for Chemical Pathology

EPA Title	EPA Entrustment Level to be Attained by Exit
EPA 1: Managing Laboratory Quality Assurances Practices	Level 4
EPA 2: Implementing a New Test and/or a New Assay Formulation	Level 4
EPA 3: Providing Routine Biochemistry Clinical Consultations	Level 4
EPA 4: Assisting the Implementation of Laboratory Safety Management Systems	Level 4

Entrustment Scale

Entrustment Level	Description
Level 1	Be present and observe, but no permission to enact EPA
Level 2	Practice EPA with direct supervision
Level 3	Practice EPA with indirect supervision (supervisor is present within the healthcare facility)
Level 4	Unsupervised practice allowed (supervisor is not present in the healthcare facility, but available on call to provide supervision remotely)
Level 5	May provide supervision for the practice of this EPA

EPA 1: Managing Laboratory Quality Assurance Practices

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Title	Managing Laboratory Quality Assurance Practices
Specifications and limitations	The practice of the EPA should align with Appropriate and Value-based Care (AVBC) principles where relevant – (i) Care is evidence-based, (ii) Care is patient-centred, (iii) Care is right-sited, (iv) Care is integrated and coordinated, and (v) Care is cost-effective and sustainable. This EPA focuses on reviewing, identifying and resolving quality assurance (QA) and quality control (QC) issues. This includes: 1. Reviewing and interpreting results of proficiency testing, including retrospective review, analyser-specific QC metrics, turnaround-times, amended report rates, etc, taking into consideration pre-analytical, analytical and post-analytical factors on laboratory results. 2. Applying appropriate statistical techniques. 3. Leading review and troubleshooting of issues that arise, e.g., troubleshooting instrument malfunctions or error, responding to complaints, and reviewing breaches in laboratory quality or safety. 4. Applying knowledge of process improvement methodologies to formulate and carry out a plan of action to mitigate or prevent recurrence of the issues. 5. Communicating quality assurance issues to laboratory team and clinical stakeholders and report to institutional/national patient safety reporting and learning systems, where applicable. 6. Understanding and reviewing quality management system. 7. Managing laboratory data with appropriate statistical knowledge. Limitations: None
EPA Entrustment Level to be Attained by Exit	Level 4

EPA 2: Implementing New Tests and/or New Assay Formulations

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Title	Implementing New Tests and/or New Assay Formulations
Specifications and limitations	The practice of the EPA should align with Appropriate and Value-based Care (AVBC) principles where relevant – (i) Care is evidence-based, (ii) Care is patient-centred, (iii) Care is right-sited, (iv) Care is integrated and coordinated, and (v) Care is cost-effective and sustainable. This EPA includes: 1. Choosing a relevant test and/or a new assay formulation. 2. Deciding on the scope of technical evaluation – verification vs validation. 3. Performing technical evaluation according to laboratory protocol for technical evaluation including acceptability criteria. 4. Collating relevant information such as clinical utility and need, test utilisation, existing or anticipated workload, required laboratory resources and impact on relevant workflows, biomedical/infrastructural/financial considerations. 5. Analysing results of technical evaluation and related information, and provide appropriate recommendations and remarks. 6. Implementing the new test and/or a new assay formulation in close collaboration with laboratory scientific and administrative teams and clinical stakeholders. Limitations: None.
EPA Entrustment Level to be Attained by Exit	Level 4

EPA 3: Providing Routine Biochemistry Clinical Consultations

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Title	Providing Routine Biochemistry Clinical Consultations
Specifications and limitations	The practice of the EPA should align with Appropriate and Value-based Care (AVBC) principles where relevant – (i) Care is evidence-based, (ii) Care is patient-centred, (iii) Care is right-sited, (iv) Care is integrated and coordinated, and (v) Care is cost-effective and sustainable. This EPA includes: 1. Providing patient care consultations related to Clinical Biochemistry Tests with attending/requesting clinician: analyses, appraises, formulates, interprets, and effectively conducts consultation. 2. Summarising and presenting relevant clinical information and clinical biochemistry test results (including unexpected results) for clinicopathologic correlation. 3. Reviewing and integrating clinical and laboratory patient information with the multidisciplinary team or attending clinician in the management of the patient. 4. Communicating with laboratory staff and clinical/medical care team in a timely and professional manner. 5. Demonstrating medical expert knowledge appropriate to the consultation. 6. Advocating appropriate utilisation of laboratory tests. Limitations: None
EPA Entrustment Level to be Attained by Exit	Level 4

EPA 4: Assisting the Implementation of Laboratory Safety Management Systems

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Title	Assisting the Implementation of Laboratory Safety Management Systems
Specifications and limitations	The practice of the EPA should align with Appropriate and Value-based Care (AVBC) principles where relevant – (i) Care is evidence-based, (ii) Care is patient-centred, (iii) Care is right-sited, (iv) Care is integrated and coordinated, and (v) Care is cost-effective and sustainable. This EPA includes: 1. Applying biosafety principles to all aspects of laboratory work, including facility design, operating equipment, laboratory practices. 2. Doing risk assessment using risk assessment matrix and related tools. 3. Performing preventive and corrective action in relation to incidents. 4. Applying principles from relevant references e.g., WHO laboratory safety manual. 5. Complying with regulations e.g., BATA, NEA, SCDF, OSHA. 6. Applying biosecurity measures to ensure authorised access.
	Limitations: None
EPA Entrustment Level to be Attained by Exit	Level 4