



Online Certificate Course Outline

Senior/ Laboratory Quality Manager (LQM / Senior LQM)

Aligned with IPC-BD-25-007 – Certification Scheme of Laboratory Quality Manager

Course dates: March 1-20, 2024

Delivery Mode: Online (E-Learning Certificate Course)

Total Duration: 40 Hours (remote, equivalent to traditional in-class training hours)

Target Audience:

- Laboratory Quality Managers
- Senior Laboratory Personnel
- Technical Managers, Quality Officers, and Supervisors in testing, calibration, and sampling laboratories
- Candidates seeking IPC LQM or Senior LQM certification through an IPC MLA Signatory

Prerequisites: No formal prerequisites are required. However, prior knowledge of conformity assessment principles is considered an advantage.

Recommended preparatory course: Foundations of Conformity Assessment, provided by the Conformity Assessment Society (CAS) – <https://ca-society.com/courses>

Important Note:

This course is designed in full alignment with IPC-BD-25-007 – Certification Scheme of Laboratory Quality Manager, ISO/IEC 17025, ISO/IEC 17024, ISO 19011.

This certificate training program supports competence development but does not constitute certification. Certification is provided by IPC MLA Signatories, in accordance with IPC-BD-25-007.

Training content, duration, and learning outcomes meet the minimum training requirements defined by IPC, while maintaining independence between training and certification, as required by IPC policy.

Course Structure & Modules

Module 1 – Introduction to IPC Certification, Conformity Assessment

- IPC certification framework and scheme ownership
- Structure and purpose of IPC-BD-25-007
- Roles and responsibilities of Laboratory Quality Managers
- Relationship between training, examination, and certification
- Overview of Conformity Assessment Structure and Principle

Module 2 – Laboratory Quality Management Systems (QMS)

- ISO/IEC 17025 requirements and intent
- Quality manual, procedures, records, and document control
- Process-based and risk-based thinking
- Legal, regulatory, and normative requirements
- Document approval, issue, and revision control

Module 3 – Metrology, Equipment & Calibration Management

- Measurement traceability and metrological chains
- Calibration planning and control
- Equipment maintenance, verification, and intermediate checks
- Handling equipment failures and out-of-tolerance conditions
- Equipment records, logs, and asset management

Module 4 – Quality Control & Technical Validity of Results

- Quality control points in testing, calibration, and sampling
- Statistical tools (mean, SD, variance, control charts)
- Measurement uncertainty concepts and application
- Method validation and verification
- Proficiency testing and interlaboratory comparisons
- Handling abnormal and nonconforming results

Module 5 – Internal Audits & Management System Improvement

- ISO 19011 principles and audit process
- Audit planning, checklists, and execution
- Nonconformity classification and root-cause analysis
- Corrective actions, effectiveness checks
- Continuous improvement tools (PDCA, fishbone, etc.)

Module 6 – Risk-Based Thinking & Opportunities

- Risk management concepts in laboratory operations
- Risk identification tools (SWOT, process risk mapping)
- Risk evaluation, treatment, and monitoring
- Opportunity identification and improvement planning

Module 7 – External Audits, Accreditation & Customer Focus

- Accreditation process and external assessments
- Preparing for accreditation and surveillance audits
- Communication with assessors and technical experts
- Customer complaints handling and dispute resolution
- Corrective and preventive actions related to customer feedback

Module 8 – Professional Behavior & Certification Exam Preparation (2 hours)

- Personal behavior and ethics (ISO 19011:2018)
- IPC Code of Conduct principles
- Overview of IPC examination formats:
 - Multiple-choice
 - Open questions
 - Situational judgment
- Exam strategies and competency mapping

Training Outputs

Upon successful completion, participants receive:

- Certificate of Training Completion
- Training records suitable for submission to an IPC-recognized Personnel Certification Body
- Preparedness for IPC LQM or Senior LQM examinations

Course dates: March 1-20, 2024

Course Fee: USD \$1,100

Preregister by February 20, 2026, and save 20%

20% additional discount for 2 or more candidates from the same company!

- Course fees cover participation in the online training program, access to course materials, and issuance of a Certificate of Training Completion upon successful attendance.
- Course fees do not include IPC certification or examination fees charged by IPC MLA Signatories.
- All fees are payable in advance, prior to course commencement, unless otherwise agreed in writing.
- Course fees are non-refundable.

More Information can be obtained from:

VKCons LLC

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