COURSE TABLE OF CONTENTS

ISO/IEC 17043:2023 Proficiency Testing Schemes - Competence of PT Providers

OEM: ISO • Duration: 2 Days (16 hrs)

COURSE MODULES & TOPICS

Module 1: PT Fundamentals and Standard Framework

- PT objectives and interlaboratory comparisons
- Scope, terminology and structure of ISO/IEC 17043:2023
- Links to ISO 13528, ISO/IEC 17025 and ISO 15189

Module 2: General and Structural Requirements

- Impartiality, confidentiality and associated risks
- Legal entity, organizational structure, authority and responsibilities

Module 3: Resource Requirements

- Personnel competence and authorization
- Facilities, environmental conditions and equipment
- Externally provided products and services
- Metrological traceability where relevant

Module 4: PT Scheme Planning and Design

- Review of requests, tenders and contracts
- Scheme objectives, participant instructions and scheme plan
- Selection of PT items, measurands and performance criteria

Module 5: Statistical Design and Assigned Values

- Selection of statistical design and assigned value approaches
- Standard deviation for proficiency assessment
- Uncertainty of assigned values
- Robust statistics overview

Module 6: PT Item Production and Control

- Production, handling, storage, packaging and distribution
- Homogeneity and stability assessment
- Nonconforming PT items and technical records

Module 7: Evaluation of Participant Performance

- Result validation and statistical evaluation
- z, z-prime, zeta and En statistics: applicability and interpretation
- Limitations of performance scores and trend evaluation

Module 8: Reporting and Communication

- PT reports and required information
- Participant confidentiality
- Interpretation and amended reports

Module 9: Management System Requirements

- Documents, records, risks and opportunities
- Nonconforming work, corrective action and improvement
- Internal audits and management reviews

Module 10: Accreditation Readiness and Review

- Gap assessment and objective evidence
- Implementation priorities and common pitfalls
- Final knowledge check and applied review