



London TDM

Engineering and Technical Skills Training Courses

Course Venue: United Kingdom - London

Course Date: From 05 April 2026 To 09 April 2026

Course Place: London Paddington

Course Fees: 7,500 USD

Introduction

Instrumentation calibration and loop checking are critical processes in ensuring accurate and reliable measurement readings in industrial applications. This 5-day professional course is designed to provide participants with the knowledge and skills necessary to effectively calibrate instruments and perform loop checks. Through a mix of theoretical concepts and practical exercises, attendees will learn to maintain instrumentation accuracy and integrity, which is essential for process control and operational efficiency.

- Understand the fundamentals of instrument calibration and loop checking.
- Develop skills to perform calibration procedures and loop checks accurately.
- Learn to troubleshoot common issues found during calibrations and loop checks.
- Gain expertise in using calibration equipment and reading technical documentation.
- Enhance safety measures and operational standards during instrument maintenance.

Course Outlines

Day 1: Introduction to Instrumentation and Calibration Basics

- Overview of instrumentation types and their applications
- Principles of measurement and control systems
- Introduction to calibration concepts and standards
- Understanding calibration terminology and documentation
- Safety practices and regulations in calibration

Day 2: Calibration Equipment and Procedures

- Types of calibration equipment and their usage
- Setting up and configuring calibrators
- Step-by-step calibration procedures for various instruments
- Documenting and interpreting calibration results
- Hands-on lab activities with calibration tools

Day 3: Loop Checking Fundamentals

- Introduction to control loops and their components
- Understanding loop diagrams and signal paths
- Loop checking procedures and methodologies
- Troubleshooting and diagnosing loop issues
- Real-life case studies on loop checks

Day 4: Advanced Calibration Techniques and Tools

- Exploring advanced calibration techniques
- Using digital and automated calibration tools
- Calibration in hazardous and extreme environments
- Performing multi-variable and high-accuracy calibrations
- Interactive advanced calibration exercises

Day 5: Examination, Review, and Best Practices

- Written and practical examination
- Review of key concepts and techniques
- Best practices in calibration and loop checking
- Implementing calibration management systems
- Course feedback and certification distribution