



Energy Milestones Corporation Advancing Professionals to the next level

Energy Milestones is proud to be accredited, partner and associated with the following association bodies:





















Overview

Gauge calibration training is a process designed to educate individuals on the principles and practices of gauge calibration. Gauge calibration refers to the process of verifying and adjusting the accuracy of measuring instruments or gauges used in various industries to ensure they provide reliable and accurate measurements.

Course Objectives

At the end of this course, the participants will be able to

- Mastery of Calibration Techniques: Participants will gain a comprehensive understanding of calibration principles and techniques, enabling them to accurately calibrate a wide range of measurement instruments and gauges commonly used in their industry.
- Application of Measurement Uncertainty: Participants will learn to assess and quantify measurement uncertainty, allowing them to report measurement results with confidence and understand the potential variability in their calibrated values.
- Compliance with Industry Standards: Participants will become familiar with relevant national and international calibration standards and regulations, ensuring they can perform gauge calibration by industry best practices and compliance requirements

Course Content

- 1. Introduction to Gauge Calibration:
 - Importance of Calibration: Understanding the significance of accurate measurements and the consequences of using uncalibrated gauges.
 - Types of Gauges: Overview of different types of gauges and their applications in various industries.
 - Calibration Standards: Introduction to national and international calibration standards, such as ISO 17025, and their relevance in ensuring traceability and reliability.









Course Content

- 2. Calibration Procedures and Techniques:
 - Calibration Process: Step-by-step procedures for calibrating various types of gauges, including setup, measurements, adjustments, and verification.
 - Calibration Equipment: In-depth exploration of calibration tools and instruments, such as deadweight testers, pressure calibrators, and temperature baths.
 - Measurement Uncertainty: Understanding and calculating measurement uncertainty to provide reliable calibration results and reporting
- 3. Compliance and Documentation:
 - Regulatory Requirements: Comprehending industry-specific regulations and standards related to gauge calibration and ensuring compliance with these requirements.
 - Calibration Records and Traceability: Emphasising the importance of accurate documentation, traceability, and maintaining calibration records for auditing and quality control purposes





Targeted Audience

- Quality Control and Quality Assurance Professionals
- Metrology Personnel
- Engineering and Technical Personnel
- Laboratory Technicians
- Manufacturing Personnel

Course Methodology

Facilitated by an experienced professional trainer, this training course will be conducted as a highly interactive workshop session. A variety of training methodologies and facilitation techniques will be employed before and during the course, as applicable. These methods are aimed at enhancing individual and group interaction while maximising learning. Some of these methods are:

- Online Pre-post Test
- Colourful Visual Aids
- Gamification
- Self-Assessment Instruments
- Simulations
- Case Studies
- Videos
- Group Exercises & Discussions
- Role-plays
- Indoor & Outdoor games





