ASSET PERFORMANCE MANAGEMENT

ISO 18436-7 CATEGORY I IRTCAT-I INFRARED THERMOGRAPHY

Modern learning methodology: interactive simulations, 3D animations, and a wealth of case studies

Format

Duration: 35 hours **Schedule:** 5 Day(s) **Delivery:** Classroom

Who should attend

- Engineers interested in Thermography
- Engineers involved in condition monitoring
- Personnel who want to become certified to international standards (ISO-18436)

Objectives

- Set up and operate the thermal imaging equipment for safe thermographic data collection
- Verify the calibration of thermographic measurement systems
- Identify, prevent minimize and control poor data acquisition and error sources
- Apply a specified thermographic measurement technique
- Evaluate and report test results and highlight areas of concern

Required Prerequisites

12 moths of experience for certification and the Ishihara perception test.

Program Outline

Day 1:

- Maintenance practices
- Condition monitoring
- Principles of infrared thermography

Day 2:

- Thermal conduction
- Thermal convection
- Thermal radiation: Emitted, reflected, and transmitted radiation; Radiation wavelengths and the electromagnetic spectrum, Emissivity and the Stefan-Boltzmann Law, Incident and excitant radiation

Day 3:

- Equipment and data acquisition: infrared camera, lenses, color palette selection, Error source recognition, prevention and control, thermal camera, environmental and operational conditions, Image storage and management
- Safety rules and guidelines

Day 4:

- Thermographic applications: basic principles of diagnostics (ISO 13379) and prognostics (ISO 13381) Machinery engineering principles, Electrical application, Mechanical application, Civil applications, Process applications
- General image interpretation guidelines

Additional Requirements: Customized customer course taught in Middle East region only. Contact your Cordant™ Region training manager for additional details.

CERTIFICATION

ISO Certification

Global Partner: Mobius Institute