



Inspection Techniques for Core Network Materials

15 - 19 Nov 2026
Kuala Lumpur (Malaysia)



Inspection Techniques for Core Network Materials

Ref.: 16473_1022256 **Date:** 15 - 19 Nov 2026 **Location:** Kuala Lumpur (Malaysia) **Fees:** 4900 Euro

Introduction:

This Inspection Techniques for Core Network Materials course equips professionals with essential knowledge and practical skills for evaluating network materials. It explores methods for detecting defects, assessing quality, and ensuring compliance with industry standards. Participants will learn to apply visual, mechanical, and advanced inspection techniques effectively.

The Inspection Techniques for Core Network Materials program emphasizes understanding material properties, performance requirements, and maintenance implications. The training also covers reporting practices and documentation standards. Participants will confidently evaluate core network materials to support operational reliability and safety.

Targeted Groups:

This Inspection Techniques for Core Network Materials training targets professionals seeking specialized knowledge and skills:

- Network engineers.
- Quality assurance specialists.
- Material testing technicians.
- Maintenance and reliability engineers.
- Procurement and supply chain managers.
- Technical supervisors.
- Project managers in network infrastructure.

Course Objectives:

Participants will achieve the following objectives by completing the Inspection Techniques for Core Network Materials course:

- Understand core network materials and their properties.
- Identify common defects in network materials.
- Apply visual and non-destructive inspection methods.
- Use mechanical testing techniques accurately.
- Interpret inspection results effectively.
- Ensure compliance with industry standards.
- Document inspection findings clearly.
- Support maintenance and quality improvement processes.

Targeted Competencies:

Participants will gain the following competencies during the Inspection Techniques for Core Network Materials program:

- Proficient material evaluation skills.
- Knowledge of advanced inspection methods.
- Ability to detect structural and surface defects.
- Effective reporting and documentation skills.
- Understanding of material compliance requirements.
- Integration of inspection results into maintenance planning.
- Collaboration with technical and quality teams.

Studying Scenarios:

In this Inspection Techniques for Core Network Materials training, participants will develop their skills through the analysis of the following scenarios:

- Identifying defects in cables and connectors.
- Evaluating material wear under operational stress.
- Performing non-destructive testing on network components.
- Assessing compliance with network material standards.
- Reporting inspection results to management.
- Planning maintenance based on inspection outcomes.

Course Content:

Unit 1: Introduction to Core Network Materials:

- Overview of core network materials and types.
- Properties and characteristics of metals, polymers, and composites.
- Material selection criteria for network infrastructure.
- Common material failures and degradation mechanisms.
- Impact of environmental conditions on material performance.
- Lifecycle considerations for network components.

Unit 2: Visual and Mechanical Inspection Methods:

- Visual inspection techniques for surface defects.
- Use of magnification tools for detailed observation.
- Mechanical testing methods for strength and flexibility.
- Identifying cracks, corrosion, and wear.
- Calibration and maintenance of inspection tools.
- Safety procedures during inspection tasks.

Unit 3: Non-Destructive Testing Techniques:

- Introduction to non-destructive testing NDT methods.
- Ultrasonic testing for internal flaws.
- Magnetic particle inspection for ferrous components.
- Radiographic testing applications.
- Eddy current and other advanced NDT methods.
- Interpretation of NDT results.
- Integrating NDT findings into quality assurance.

Unit 4: Compliance and Documentation:

- Understanding industry standards and regulations.
- Documenting inspection results effectively.
- Reporting frameworks and templates.
- Ensuring traceability of inspection activities.
- Quality control audits and follow-up actions.
- Aligning inspection outcomes with maintenance schedules.

Unit 5: Practical Applications and Case Studies:

- Real-world scenarios of network material failures.
- Hands-on exercises in visual and mechanical inspections.
- NDT case studies and result analysis.
- Decision-making based on inspection data.
- Risk assessment and mitigation strategies.
- Best practices for long-term network material reliability.

Final Insights & Key Takeaways:

Participants will leave the course with a clear ability to inspect, evaluate, and report on core network materials efficiently. They will support maintenance, quality, and operational reliability through practical inspection skills.



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**Registration form on the :
Inspection Techniques for Core Network Materials**

code: 16473 **From:** 15 - 19 Nov 2026 **Venue:** Kuala Lumpur (Malaysia) **Fees:** 4900 **Euro**

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