BLACKBIRD FOR TRAINING

Protective Coatings Inspection – NACE Level 2



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Introduction

The Protective Coatings Inspection—NACE Level 2 course is an advanced professional program designed for specialists responsible for supervising, evaluating, and verifying coating inspection activities in industrial environments. This course builds on foundational inspection knowledge and focuses on deeper technical understanding, decision-making, and problem resolution throughout the coating lifecycle.

The course is intended for professionals who already possess practical experience in coatings inspection and want to strengthen their technical judgment, inspection accuracy, and compliance with recognized industry standards. It addresses the increasing organizational need for asset protection, corrosion control, and long-term infrastructure reliability.

Participants gain structured knowledge that supports effective inspection planning, interpretation of inspection data, and coordination with project teams. The course emphasizes applied inspection practices, documentation accuracy, and quality assurance across coating projects. By the end of the program, participants are better prepared to handle complex inspection challenges and support consistent coating performance in operational environments.

Course Objectives

This course aims to develop advanced inspection competence and professional confidence. By the end of the program, participants will be able to:

- Interpret coating specifications, standards, and inspection criteria with accuracy.
- Apply advanced inspection techniques during surface preparation, application, and curing stagesEvaluate coating defects and determine their causes and corrective actions.Use inspection instruments correctly and interpret measurement results reliably.
- Review and verify inspection documentation and reports.
- Cssess coating system performance against project requirements.
- Support quality assurance and compliance objectives within coating projects.



Course Outlines

Day One: Advanced Coating Inspection Principles

- Review of coating systems and protection mechanisms.
- Inspector roles, authority, and professional responsibilities.
- Interpretation of coating specifications and standards.
- Pre-inspection planning and inspection checkpoints.
- Health, safety, and inspection ethics considerations.
- Review of inspection documentation requirements.

Day Two: Surface Preparation Inspection

- Surface cleanliness and preparation standards.
- Verification of abrasive blasting and cleaning methods.
- Measurement of surface profile and surface conditions.
- Environmental condition monitoring before coating.
- Identification of preparation defects and nonconformities.
- Practical inspection scenarios and case discussion.

Day Three: Coating Application Inspection

- Monitoring coating mixing and application processes.
- Inspection of application techniques and equipment.
- Measurement of wet and dry film thickness.
- Environmental controls during coating application.
- Detection of application defects and inconsistencies.
- Practical exercises using inspection instruments.

Day Four: Defect Evaluation and Quality Control

- Identification and classification of coating defects.
- Analysis of defect causes and contributing factors.
- Inspection acceptance criteria and tolerance limits.
- Coordination with corrective and remedial actions.
- Verification of repaired and reworked coatings.
- Documentation of inspection findings and outcomes.



Day Five: Reporting, Decision-Making, and Final Assessment

- Preparation of professional inspection reports.
- Communication of inspection results to stakeholders.
- Ethical decision-making in inspection activities.
- Review of inspection case studies and lessons learned.
- Final knowledge review and competency assessment.
- Course summary and professional development guidance.

Why Attend This Course: Wins & Losses!

- Enhances technical inspection competence and credibility.
- Improves ability to identify and resolve coating issues.
- Strengthens understanding of inspection standards and procedures.
- Supports consistent quality assurance practices.
- Develops confidence in inspection decision-making.
- Improves inspection documentation accuracy.
- Expands professional responsibilities and career potential.
- Supports long-term asset protection strategies.

Conclusion

The Protective Coatings Inspection - NACE Level 2 course provides experienced inspectors with advanced knowledge and practical skills required for effective coating inspection oversight. The program emphasizes technical accuracy, structured inspection processes, and professional judgment across all stages of coating work.

Through a balanced combination of theory, applied practice, and case-based learning, participants strengthen their ability to manage inspection challenges, interpret inspection data, and support quality outcomes. The course prepares professionals to contribute confidently to inspection programs and maintain coating integrity throughout asset life cycles.

