

AMPP CIP 2 Exam Prep for Coatings Inspectors

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Overview

Protective Coatings assets require rigorous quality control and advanced testing methodologies to prevent corrosion-related premature asset failure. This AMPP CIP Level 2 Exam Prep training programme prepares experienced coatings inspectors for the Certified Coatings Inspector Level 2 qualification requirements. Participants examine critical theoretical domains and practical evaluation techniques, including substrate preparation assessment, environmental monitoring, and failure mechanism diagnosis across industrial assets. This course is delivered by Agile Leaders Training Center.

Who Should Attend

- Certified Level 1 coating inspectors seeking advancement to Level 2 certified status.
- Quality assurance and quality control personnel supervising industrial surface treatment contracts.
- Asset integrity and Corrosion Control technicians evaluating protective coating performance.
- Painting superintendents and site inspectors managing protective coatings applications.
- Maintenance and reliability personnel auditing coating contractor quality records.

Departments and Industries

This programme serves technical and operations personnel across industrial manufacturing and infrastructure sectors.

- Quality Assurance and Quality Control Departments
- Corrosion Control and Asset Integrity Teams
- Maintenance and Reliability Engineering Units
- Oil and Gas Extraction and Refining Facilities
- Marine, Offshore, and Shipbuilding Operations
- Infrastructure and Power Generation Utilities

Learning Objectives

By the end of this course, participants will be able to:

- Interpret advanced coating project specifications, technical data sheets, and inspection and test plans.
- Evaluate environmental conditions including dew point, relative humidity, and surface temperature tolerances.
- Inspect Surface Preparation cleanliness, anchor profile, and non-visible soluble chemical contamination.
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Measure dry film thickness over ferrous and non-ferrous substrates using an eddy current DFT gauge.
- Perform destructive coating evaluations using a PIG gauge and evaluate pull-off adhesion testing results.
- Assess curing integrity through durometer hardness testing and conduct concrete coating inspection tasks.

Course Agenda

Day 1: Inspector Responsibilities, Standards, and Safety Governance

- Level 2 Inspector Authority, Ethical Standards, and Inspection Boundaries
- Review of Technical Specifications, Inspection Test Plans, and Hold Points
- Health and Safety Governance, Hazardous Materials, and Confined Space Operations
- Abrasive Blasting and High-Pressure Waterjetting Site Safety Controls
- Specification Compliance Verification and Manufacturer Product Data Interpretation

Day 2: Corrosion Mechanisms and Environmental Testing Protocols

- Corrosion Cell Dynamics: Anodic and Cathodic Reactions across Industrial Metals
- Localized Degradation: Crevice, Pitting, Galvanic, and Stress-Corrosion Cracking
- Psychrometric Calculations: Ambient Air, Surface Temperature, and Dew Point Spread
- Dehumidification, Enclosure Ventilation, and Environmental Data Logging
- Protective Coatings Chemistry, Film Formation, and Curing Mechanisms

Day 3: Advanced Surface Preparation and Contamination Assessment

- Surface Preparation on Carbon Steel, Stainless Steel, and Non-Ferrous Alloys
- Abrasive Cleanliness Testing: Oil Presence, Moisture, and Particle Size Distribution
- Surface Cleanliness Verification according to SSPC, NACE, ASTM, and ISO References
- Surface Profile Measurement using Replica Tape and Surface Comparators
- Soluble Salts Extraction Methods and Chloride Contamination Limits

Day 4: Coating Application, Thickness Auditing, and Mechanical Testing

- Application Auditing: Airless Spray, Conventional Spray, and Plural Component Systems
- Wet Film Thickness Monitoring and Recoat Window Verification
- Dry Film Thickness Verification using Magnetic and Eddy Current DFT Gauge Devices
- Destructive Layer Analysis using a PIG Gauge on Single and Multi-Coat Systems
- Pull-Off Adhesion Testing Protocol, Tensile Stresses, and Failure Mode Analysis

Day 5: Concrete Coatings, Hardness Evaluation, and Exam Readiness

- Concrete Coating Inspection: Moisture Vapor Emission and Surface Preparation
- Durometer Hardness Testing for Linings and Elastomeric Barrier Materials
- Inspection Station Practical Review across Measurement and Testing Scenarios
- Non-Conformance Documentation, Escalation Protocols, and Daily Inspection Reporting
- Theory Exam Domain Consolidation, Timed Practice Review, and Personal Action Plans

Practical Exercises

Participants complete structured inspection exercises to reinforce theoretical concepts and measurement procedures.

- Interpret complex coating specifications to identify mandatory inspection hold points and acceptance criteria.
- Calculate psychrometric parameters and determine substrate suitability based on ambient field data.
- Analyze destructive thickness readings obtained from a PIG gauge to evaluate individual layer depths.
- Assess pull-off adhesion test specimens to distinguish cohesive, adhesive, and substrate failure modes.

FAQs

What specific qualifications or prerequisites are needed for participants before enrolling in the course?

Participants should ideally hold an active Basic Coatings Inspector Level 1 credential and possess two years of verified coatings-related field experience prior to undertaking this preparation programme.

How long is each day's session, and is there a total number of hours required for the entire course?

Each daily session spans approximately four to five hours, including technical reviews and structured knowledge checks, totaling twenty to twenty-five instructional hours over five consecutive days.

Is AMPP CIP Level 2 only a theory exam?

No, the evaluation pathway consists of both a computer-based theoretical examination and a hands-on practical assessment covering specialized testing stations such as adhesion, hardness, and coating thickness evaluation.

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Conclusion

Completing this preparation syllabus equips Coating Inspection personnel with rigorous technical competence across critical industrial testing standards. By mastering specialized destructive and non-destructive evaluation methods, participants return to their operational roles prepared to uphold project quality standards, ensure regulatory compliance, and safeguard valuable capital infrastructure against environmental degradation.

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- Digital Government & Public Service Training Courses
- Education and Learning Development Training Courses
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