



Industrial Coating & Lining Application Specialist

Course Introduction:

This course is designed to provide professionals in various industries with an in-depth understanding of the principles, techniques, and best practices involved in industrial coating and lining applications. Coatings and linings are critical for protecting surfaces from corrosion, abrasion, and chemical exposure, enhancing the longevity and performance of equipment and structures. This five-day theoretical course will cover the fundamentals of coating chemistry, application methods, surface preparation, and quality control measures essential for achieving optimal results.

Participants will explore a variety of coating materials, including paints, epoxies, and polyurethanes, as well as the specific requirements for different substrates and environments. The course will emphasize the importance of safety and environmental considerations in coating applications, as well as the latest advancements in coating technologies. By the end of the course, attendees will possess the knowledge and skills necessary to effectively select, apply, and evaluate industrial coatings and linings in their respective fields.

Course Objectives:

By the end of the program, participants will be able to:

- Understand the fundamental principles and functions of industrial coatings and linings.
- Identify and select appropriate coating materials based on application needs.
- Implement effective surface preparation techniques for optimal coating adhesion.
- Apply various coating methods and ensure quality during application.
- Conduct inspections and quality assurance measures to assess coating performance.

Who Should Attend?

This course is intended for:-

- Coating application specialists and technicians.
- Engineers and project managers involved in coating projects.
- Quality assurance and control personnel in manufacturing and construction.
- Safety officers and environmental compliance specialists.

Course Outline:

Day 1: Introduction to Industrial Coatings and Linings

- Overview of industrial coatings and their functions
- Types of coatings: protective, decorative, and functional
- Key properties and performance characteristics of coatings
- Regulatory standards and environmental considerations

Day 2: Coating Chemistry and Materials

- Fundamentals of coating chemistry: resins, solvents, and additives
- Understanding different types of coating materials: paints, epoxies, and polyurethanes
- Selection criteria for coating materials based on application requirements
- Case studies on material performance in various environments

Day 3: Surface Preparation Techniques

- Importance of surface preparation in coating applications
- Methods for surface preparation: cleaning, sanding, and blasting
- Evaluating surface conditions and determining preparation methods
- Best practices for ensuring proper adhesion and durability

Day 4: Application Techniques and Equipment

- Overview of coating application methods: brushing, rolling, spraying, and dipping
- Selecting the right application equipment for specific coatings
- Techniques for achieving uniform coverage and thickness
- Quality control measures during application to prevent defects

Day 5: Inspection and Quality Assurance

- Importance of inspection and quality assurance in coating applications
- Techniques for evaluating coating performance: adhesion tests, thickness measurements, and visual inspections
- Troubleshooting common issues in coating applications
- Future trends and innovations in industrial coatings and linings

Course Methodology:

A variety of methodologies will be used during the course that includes:

- (30%) Based on Case Studies
- (30%) Techniques
- (30%) Role Play
- (10%) Concepts
- Pre-test and Post-test
- Variety of Learning Methods
- Lectures
- Case Studies and Self Questionnaires
- Group Work

Course Fees:

To be advice as per course location. This rate includes participant's manual, Hands-Outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Course Certificate:

International Center for Training & Development (ICTD) will award an internationally recognized certificate(s) for each delegate on completion of training.

Course Timings:

Daily Course Timings:

08:00 - 08:20	Morning Coffee / Tea
08:20 - 10:00	First Session
10:00 - 10:20	Coffee / Tea / Snacks
10:20 - 12:20	Second Session
12:20 - 13:30	Lunch Break & Prayer Break
13:30 - 15:00	Last Session