MAWA EVENTS

Address: No. 857, Block A2. Leisure Commerce Square - No 9., 46150 Petaling Jaya, Selangor, Malaysia

Phone: +601116373203 | **Email:** info@mawaevents.net

INDUSTRIAL PAINTING AND COATING TECHNIQUES

""Mastering Coating Technologies for Enhanced Durability and Protection""

Schedule

Date	Venue	Fees (Face-to-Face)
13 – 17 Apr 2026	Istanbul, Turkey	USD 3495 per delegate

► **Available delivery methods:** Face-to-Face & Online Training

Introduction

Industrial painting and coating are critical in ensuring the longevity, protection, and performance of machinery, equipment, and structures across various industries. This 5-day course is designed for professionals seeking to master the techniques of industrial painting and coating, focusing on methods that ensure high-quality finishes, durability, and resistance to corrosion, chemicals, and harsh environmental conditions.

Participants will gain comprehensive knowledge of coating systems, surface preparation techniques, and application methods for different industrial settings. The course includes both theoretical and practical components, enabling participants to develop hands-on skills for effectively applying coatings in various industrial environments.

Objectives

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

- Understand the different types of industrial coatings and their applications.
- Master surface preparation techniques and their importance in coating adhesion and durability.
- Apply various coating systems for different substrates and environmental conditions.
- Ensure proper application techniques to avoid defects and ensure high-quality finishes.
- Learn the inspection and testing methods for evaluating coating performance and quality.
- Understand the maintenance requirements for coatings and how to extend their service life.

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Why Attend

- Gain in-depth knowledge of industrial coatings, including types, properties, and applications.
- Learn the best practices for surface preparation to enhance coating adhesion and effectiveness.
- Master the proper application techniques for achieving durable and high-quality finishes.
- Improve your ability to inspect and maintain coatings for long-term performance.
- Understand the challenges and solutions for applying coatings in harsh industrial environments.
- Enhance your skills in selecting the right coating system for various industrial applications.

Target Audience

This program is designed for:

- Maintenance managers and supervisors responsible for asset protection and upkeep
- Industrial painters and coating technicians
- Quality control and inspection professionals in industrial settings
- Engineers involved in selecting and applying industrial coatings
- Anyone involved in the maintenance, repair, or protection of industrial equipment, structures, and assets

Individual Benefits

Key competencies that will be developed include:

- Expertise in selecting and applying coatings based on material and environmental conditions.
- Understanding of surface preparation methods and their effect on coating quality.
- Ability to apply coating techniques that ensure durability, corrosion resistance, and protection.
- Enhanced skills in inspecting coatings for quality control and ensuring long-term protection.
- Practical knowledge of maintenance and repair techniques for coated surfaces.

Organizational Benefits

Upon completing the training course, participants will demonstrate:

- Improved efficiency and quality in the application of coatings, reducing defects and rework.
- Enhanced protection of industrial equipment and structures, extending their service life.
- Reduced downtime and maintenance costs through proper coating application and maintenance.
- Stronger ability to meet industry standards and regulatory requirements for coating applications.
- Improved safety and reliability in industrial operations through proper coating techniques

Instructional Methodology

The course follows a blended learning approach combining theory with practice:

- Strategy Briefings – Detailed discussions on the principles and types of industrial coatings, including their applications.
- Case Studies – Real-world examples of successful coating applications and challenges faced in various industries.
- Workshops – Hands-on exercises in surface preparation, coating application, and quality control.
- Demonstrations – Practical demonstrations of coating application techniques using different tools and materials.
- Tools – Practical tools and resources for selecting and applying industrial coatings effectively.

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Course Outline

Training Hours: 7:30 AM – 3:30 PM Daily Format: 3–4 Learning Modules | Coffee breaks: 09:30 & 11:15 | Lunch Buffet: 01:00 – 02:00

Day 1: Introduction to Industrial Coatings and Surface Preparation

- Module 1: Overview of Industrial Coatings (07:30 – 09:30)
- Types of industrial coatings: paints, primers, and specialized coatings
- The role of coatings in industrial maintenance and asset protection
- Key properties of coatings: adhesion, durability, corrosion resistance, etc.
- Module 2: Surface Preparation Techniques (09:45 – 11:15)
- Importance of surface preparation in achieving quality coatings
- Methods for cleaning, abrading, and priming surfaces
- Selecting the right surface preparation method for different substrates
- Module 3: Coating Application Methods (11:30 – 01:00)
- Overview of coating application methods: brushing, rolling, spraying, dipping
- Selecting the appropriate method based on material and environment
- Factors that affect coating application: temperature, humidity, substrate condition

Day 2: Types of Coatings and Their Applications

- Module 1: Protective Coatings for Corrosion Prevention (07:30 – 09:30)
- Types of coatings for corrosion protection: epoxy, polyurethane, zinc-rich coatings
- Application techniques for corrosion-resistant coatings
- Case studies on effective corrosion protection in industrial settings
- Module 2: High-Temperature Coatings (09:45 – 11:15)
- Understanding the need for high-temperature coatings
- Types of high-temperature coatings and their applications
- Application techniques and challenges in high-temperature environments
- Module 3: Specialized Coatings (11:30 – 01:00)
- Anti-slip, anti-graffiti, and chemical-resistant coatings
- Coatings for specific industries: oil and gas, marine, manufacturing
- Selecting the right coating for specialized applications

Day 3: Coating Defects, Troubleshooting, and Inspection

- Module 1: Common Coating Defects and Their Causes (07:30 – 09:30)
- Types of defects: blistering, cracking, peeling, and discoloration
- Identifying the causes of defects and preventing them
- Best practices for avoiding coating defects during application
- Module 2: Coating Inspection Techniques (09:45 – 11:15)
- Methods for inspecting coatings: visual inspection, wet-film thickness, adhesion testing
- Tools and equipment for coating inspection
- Using inspection data to ensure high-quality coatings
- Module 3: Troubleshooting Coating Issues (11:30 – 01:00)
- How to troubleshoot common coating application issues
- Solutions for addressing defects and improving coating performance
- Case studies on troubleshooting and resolving coating challenges

Day 4: Coating Maintenance and Repair

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Module 1: Coating Maintenance Strategies (07:30 – 09:30)

- Maintaining coated surfaces to extend their service life
- Scheduling regular inspections and touch-ups
- Preventing damage and wear on coatings through proper maintenance practices
- Module 2: Repairing Damaged Coatings (09:45 – 11:15)
- Techniques for repairing damaged coatings: patching, re-coating, and touch-ups
- Selecting the right repair method for different types of coatings
- Maintaining coating integrity during the repair process
- Module 3: Safety Considerations and Best Practices (11:30 – 01:00)
- Safety protocols for coating application and handling hazardous materials
- Protective gear and equipment for coating workers
- Ensuring safe working conditions during coating application and maintenance

Day 5: Advanced Coating Techniques and Sustainability

- Module 1: Advanced Coating Technologies (07:30 – 09:30)
- Innovations in coating materials and technologies
- Smart coatings and their potential applications in industry
- Environmental considerations in coating selection and application
- Module 2: Sustainable Coating Practices (09:45 – 11:15)
- Reducing the environmental impact of industrial coatings
- Eco-friendly coatings and low-VOC options
- Best practices for minimizing waste and improving sustainability in coating operations
- Module 3: Certification Exam Preparation and Review (11:30 – 01:00)
- Review of key topics covered during the course
- Preparing for the certification exam
- Final Q&A and discussion on practical application of coating techniques

Certification

Upon completing the training course, participants will receive a Certificate of Completion in Industrial Painting and Coating Techniques, validating their expertise in industrial coatings, surface preparation, and maintenance practices.

Why Choose MAWA Events

- **Global Expertise:** More than 17 years of experience in professional training and consulting.
- **Industry-Leading Faculty:** Courses delivered by seasoned professionals with hands-on experience.
- **Practical Insights:** Learn to turn theory into actionable strategies for real-world business impact.
- **Client-Focused Solutions:** Customized programs designed to achieve your organisation’s unique goals.

In-House / Customized Training Interested in running this course for your team? Please contact us:	TEL: **+601116373203**	EMAIL: **info@mawaevents.net**