

BLAST CLEANING AND ADVANCED SURFACE PREPARATION METHODS

“Prepare the surface—protect the structure. Master modern methods in blast cleaning and surface prep.”

Schedule

| Venue (InHouse) | Fees |
|-------------------------------|-----------------------|
| At Your Organization Premises | Ask For The Quotation |

► **Available delivery methods:** In-House Training

Introduction

This intensive training program focuses on surface preparation and blast cleaning technologies essential for corrosion control, coating performance, and structural longevity. Participants will gain hands-on and theoretical knowledge of various blasting methods, abrasives, surface standards, and safety protocols. The course also addresses recent advancements in eco-friendly and automated surface preparation techniques.

Objectives

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

- Understand the principles of surface preparation and cleanliness standards
- Compare different blast cleaning methods and media
- Operate and inspect blast equipment safely and effectively
- Select appropriate abrasives and surface prep techniques for various substrates
- Identify surface contamination and measure surface profiles
- Apply environmental and occupational safety best practices

Why Attend

- Gain specialized skills essential for coating, fabrication, and maintenance industries
- Ensure surface preparation meets international standards (SSPC, NACE, ISO)
- Enhance job quality, durability, and safety in blasting operations

Target Audience

- Surface preparation technicians and blasters
- Coating inspectors and QA/QC personnel
- Maintenance engineers and facility managers
- Construction, oil & gas, marine, and infrastructure professionals
- Anyone responsible for preparing or approving blast-cleaned surfaces

Individual Benefits

- Mastery of hands-on blast techniques and equipment
- Career growth through industry-recognized surface preparation skills
- Reduced workplace incidents through improved safety knowledge

Organizational Benefits

- Fewer coating failures and reduced rework costs
- Improved compliance with international surface prep standards
- Safer, more efficient blasting and coating operations
- Better asset protection and longer structural lifespan

Instructional Methodology

- Instructor-led technical sessions and case studies
- Hands-on demonstration with blasting equipment
- Group workshops on surface inspection and evaluation
- Visual media of real-life failures and success stories
- Assessment and knowledge check quizzes

Course Outline

DETAILED 5-DAY COURSE OUTLINE (CUSTOMIZABLE)

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: Fundamentals of Surface Preparation

- Module 1: Introduction to Corrosion and Surface Preparation (07:30 – 09:30)
- Module 2: Surface Prep Standards (ISO 8501, SSPC, NACE) (09:45 – 11:15)
- Module 3: Overview of Surface Contaminants and Profile (11:30 – 01:00)
- Module 4: Workshop – Visual Surface Assessment (02:00 – 03:30)

Day 2: Blast Cleaning Technologies

- Module 1: Abrasive Blast Cleaning – Dry, Wet, and Vapor (07:30 – 09:30)
- Module 2: Non-Abrasive Methods – Water Jetting, Sponge Media, etc. (09:45 – 11:15)
- Module 3: Blast Media Selection and Recycling (11:30 – 01:00)
- Module 4: Hands-on Demo – Equipment Setup and Operation (02:00 – 03:30)

Day 3: Equipment & Safety Protocols

- Module 1: Blasting Equipment Components & Maintenance (07:30 – 09:30)
- Module 2: PPE and Operator Safety Guidelines (09:45 – 11:15)
- Module 3: Containment, Ventilation, and Waste Handling (11:30 – 01:00)
- Module 4: Risk Assessment and Safe Work Procedures (02:00 – 03:30)

Day 4: Surface Evaluation & Troubleshooting

- Module 1: Surface Profile Measurement Techniques (07:30 – 09:30)
- Module 2: Soluble Salt Testing and Cleanliness Checks (09:45 – 11:15)
- Module 3: Defects from Poor Prep – Case Studies (11:30 – 01:00)
- Module 4: Workshop – Quality Control and Documentation (02:00 – 03:30)

Day 5: Modern Methods & Course Wrap-Up

- Module 1: Robotic Blasting, Eco-Friendly Abrasives, and AI Tools (07:30 – 09:30)
- Module 2: Project Planning for Surface Prep Operations (09:45 – 11:15)
- Module 3: Group Activity – Develop a Surface Prep Plan (11:30 – 01:00)
- Module 4: Final Quiz, Feedback & Certification Ceremony (02:00 – 03:30)

Certification

Participants will receive a Certificate of Completion in Blast Cleaning and Surface Preparation Methods, recognized by industry professionals and applicable to compliance with global coating and corrosion control standards.

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Please contact us:

TEL:

+601116373203

EMAIL:

info@mawaevents.net

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