

Practical Interactive Workshop

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academy

Practical Interactive Workshop

- 1 Day Course

This workshop has been created to benefit Corrodere Academy students, Engineers, Trainers, paint and equipment suppliers and contractor personnel. The day includes a number of theoretical and practical exercises.

Following an introduction to basic corrosion, volume solids, spreading rates, students will participate in reviewing a typical coating specification, calculation of areas and establishing the required quantities for each coating system.

Students will learn about pre-surface preparation techniques prior to conducting methods of surface preparation such as abrasive blast cleaning, weld spatter, sharp edges, laminations, shelling, surface contamination etc.

A comprehensive review of visual standards will be covered in the workshop. Visual standards from SSPC, NACE and ISO will be discussed and demonstrated to ensure the student is familiar with the visual standards used in the coatings industry.

The second part of the workshop will consist of inspection equipment demonstrations with practical exercises being conducted in group and single use.

Inspection equipment will be available for ambient conditions, surface profile, wet and dry film thickness, holiday detection, assessment of dust, soluble salt contamination and adhesion testing.

A review of coating defects commonly found and abrasives used for surface preparation of substrates prior to coating application will be conducted.

Course Structure

- Introduction and Aims and Objectives
- Basic Corrosion
- Volume Solids, Paint Calculation, Spreading Rates and Wastage
- Pre-surface preparation
- Visual Standards (ISO, SSPC, NACE etc)
- Practical Interactive Demonstrations

1. Ambient Conditions

- Whirling Hygrometer
- Electronic Psychrometers
- Psychrometric Tables and Calculators
- Digital Steel Temperature Gauge
- Magnetic Steel Temperature Gauge

2. Surface Profile

- Manual Surface profile Gauge (Needle)
- Digital Surface Profile Gauge
- Replica Tape (Testex)
- Surface Comparator
- Kean Tator Surface Profile Gauge

3. Wet Film Thickness

- Wet Film thickness Comb
- Wet Film Thickness Wheel

4. Dry Film Thickness

- Magnetic Dry Film Thickness Gauge
- Digital Dry Film Thickness Gauge
- Destructive Paint Inspection Gauge

5. Holiday Detection

- Low Voltage Holiday Detection
- High Voltage Holiday Detection

6. Assessment of Dust

- Dust Assessment

7. Soluble Salt Contamination

- Bresle Test
- Other Methods of Soluble Salt Test Equipment

8. Adhesion Testing

- Tape Test
- Knife Test
- Pull-off Adhesion Tester

9. Coating and Application Defects

- Identification of Coating Defects

10. Abrasive Types

- Visual identification of Abrasives

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