



Best Technology Solutions (BTS)



NACE International Coatings Techniques- Training program

Introduction:

This training course thoroughly and systematically covers every aspect of coatings application and inspection techniques, maintenance and repair procedures. Coatings selection, specifications, applications and relevant industry standards for surface preparations of various substrates such as steel, galvanized steel, stainless steel, copper, and aluminum are also discussed in depth. The effect of cathodic protection on the performance of coatings is also covered in detail. This coatings short course trains the participants with the knowledge and skills required for effective coatings inspection, maintenance and repair of both organic coatings (or paints) and metallic coatings such as hot-dip galvanizing and metallic spray or metallization

Who Should Attend?

Engineers and technologists who are in charge of cathodic protection systems, Designers who are interested in cathodic protection technology for corrosion prevention, Technicians and maintenance personnel who deal with installed cathodic protection systems, Facility owners and users who are concerned with corrosion, Plant Maintenance Engineers and Supervisors, Materials Engineers, Design, Manufacturing, Mechanical and Inspection Engineers, Quality Assurance/Control Personnel, Chemical Engineers, Chemical Treatment Personnel, Protective Coating and Lining Personnel

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Course Objectives:

By the end of this course delegates will learn about:

- The Role of a Coating Inspector
- Corrosion Concepts Relevant to Coatings
- Characteristics of Coatings
- Fundamentals of Coatings
- The Protective Coating System
- Corrosion Resistant Organic Coatings
- Corrosion Resistant Zinc Coatings
- Design Considerations
- Importance of Surface Preparation
- BS, ISO, SIS, NACE, SSPC Standards
- Relevant to Surface Preparation
- Application of Coatings
- Health and Safety Aspects
- Selection of Coatings
- Coatings and Cathodic Protection
- Coating Failures: Causes and Prevention
- Coating Repair and Maintenance
- Quality Control in Coatings Application
- Coatings Inspection and Testing



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Course Outline:

- The Role of a Coating Inspector
- Corrosion Concepts Relevant to Coatings
- BS & ISO Classification of Corrosive Environments
- Characteristics of Coatings
- Fundamentals of Coatings
- The Protective Coating System
- Corrosion Resistant Organic Coatings
- Corrosion Resistant Zinc Coatings: zinc-rich coatings vs. hot-dip galvanizing
- Designing for Coatings
- Effect of Substrate on Coating Life
- Importance of Surface Preparation
- BS, ISO, SIS, NACE, SSPC Standards Relevant to Surface Preparation
- Methods of Application
- Health and Safety Aspects
- Selection of Coatings
- Coatings and Cathodic Protection
- Coating Failures: Causes and Prevention
- Coating Repair and Maintenance