



Protective Coatings Inspection, Maintenance And Repair



Introduction:

This 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). This coatings inspection course can be taken as in-house training course, course-on-demand, online course and distance learning course worldwide. It can also be customized to meet the specific needs of your organization.

Who Should Attend?

Corrosion Control Engineers & Personnel, Process Engineers, Metallurgists, Inspection Personnel, Mechanical Engineers, Material Selection Personnel, Plant Contractors, Operations Engineers, Team Leaders & Supervisors, Maintenance

Supervisors, Senior Plant Supervisors, Mechanical Engineers, Corrosion Control & Monitoring Systems Personnel, Oil and Gas Production Facilities Personnel, Chemists, Chemical Engineers, Technicians and Supervisors, New Petroleum Engineers, Asset Management Personnel, Design & Construction Engineers, Team Leaders & Coordinators, Construction Coordinators, Maintenance Engineers, Technologists, Maintenance Team Leaders & Engineers, Personnel who are / will be responsible for detecting, inspecting, monitoring, controlling corrosion in oil and gas piping, pipelines used in production operations and Personnel responsible for metallurgy, corrosion or the prevention of failures in plant and equipment

Course Objectives:

By the end of this course delegates will be able to:

- The Role of a Coating Inspector
- Corrosion Concepts Relevant to Coating
- Characteristics of Coatings & Fundamentals of Coatings
- Protective Coating System & Corrosion Resistant Organic Coatings
- Designing for Coatings & Effect of Substrate on Coating Life
- Importance of Surface Preparation
- Methods of Application & Health and Safety Aspects
- Coatings and Cathodic Protection & Selection of Coatings
- Coatings and Cathodic Protection & Coating Failures: Causes and Prevention
- Coating Repair and Maintenance & Development of Coatings Specifications
- Quality Control in Coatings Application & Coatings Inspection and Testing

Course Outline:

- The Role of a Coating Inspector
- Corrosion Concepts Relevant to Coating
- Corrosion Resistant Organic Coatings

- Methods of Application
- Health and Safety Aspects
- Selection of Coatings
- Coatings and Cathodic Protection
- Coating Failures: Causes & Prevention
- BS & ISO Classification of Corrosive Environments
- Characteristics & Fundamentals of Coatings
- Protective Coating System & Designing for Coatings
- Corrosion Resistant Zinc Coatings
- Effect of Substrate on Coating Life
- Importance of Surface Preparation
- BS, ISO, SIS, NACE, SSPC Standards Relevant to Surface Preparation
- Coating Repair and Maintenance
- Quality Control in Coatings Application
- Coatings Inspection and Testing