



Best Technology Solutions (BTS)



## Protective Coatings Specialist PCS 1 Basic Principles- Training program

### Introduction:

PCS 1 Basic Principles provides an introduction of coatings and linings used to control corrosion as well as the economic benefits of managing them. This course defines and examines common coatings used for corrosion control and addresses when, how and why they should be used. NACE is recognized as an Authorized Provider of Continuing Education Units by the International Association for Continuing Education and Training (IACET). At the end of the course you will be asked to complete a course quiz. Course highlights are:

- Assessment of coatings systems
- Development of coatings specifications
- Surface preparation and coatings applications
- Economics of coatings
- Contract planning and management
- Coating failure analysis
- Inspection



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## Who Should Attend?

Planning, engineering and supervisory level personnel responsible for industrial coatings and linings who are new to the field or position, Specifiers, maintenance and project engineers in all industries, Marketing Representatives of coatings materials or equipment, Unit Managers involved in corrosion

## Course Objectives:

By the end of this course delegates will learn about:


- Control corrosion and the purpose of coatings and linings
- Identify the types of coating systems and select the appropriate one based on factoring considerations
- Recognize the purpose of surface preparation and identify errors/omissions
- Understand the types of methods of application and associated standards
- Ensure desired results by understanding the importance of coating specification and pre-job conference
- Conduct inspection and quality control and understand the instruments and tools required
- Utilize instruments and tests to conduct inspection and quality control
- Accurately provide documentation and report data, recognize the importance of it and how it assists with maintenance planning



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## Course Outline:

- Forms of corrosion
- Corrosion mechanisms
- Corrosion effects on safety
- Corrosion effects on costs
- Corrosion effects on appearance
- Corrosion effects on maintenance programs
- Techniques of corrosion control
- Purposes of coatings and linings
- Types of coatings
- How they are categorized
- Coatings desirable characteristics
- Coatings components
- Selecting coatings
- Selecting coatings systems (single and multiple)
- Surface preparation safety
- Common techniques and equipment
- Common application techniques and equipment used for a variety of substrates

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- Standards used relating to surface preparations and application

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- Types of reports and developing a specification
- Common coating defects and failures