



## BASIC CORROSION

The world's leading source of training and information on coating inspection organized by

**IMC engineering srl**  
Coating and Insulation Consulting & Services  
under license of AMPP

The Basic Corrosion Course is for individuals interested in a basic survey of corrosion. It focuses on corrosion and the potential problems caused by corrosion. It provides a basic but thorough review of causes of corrosion and the methods by which it can be identified, monitored, and controlled.

Active participation is encouraged through hands-on experiments, case studies and open discussion format. Classroom instruction is comprised of lectures and open discussions and concludes with an exam. It will become an online proctored exam for each student that they will schedule on their own time.

A person who successfully completes this course will know enough about corrosion to be able to pursue additional study and professional development through the AMPP Certification Program.

**Prerequisites to register and attend the course:** No prior training or experience is required. However a basic understanding of science and chemistry is recommended.

**Certification:** To receive a certificate of completion\* must be attend the entire course and successfully pass each learning assessment for the course. With Basic Corrosion Course the student can achieve the Corrosion Technician, Corrosion Technologist, Senior Corrosion Technologist and Protective Coating Technician.

Visit: <https://www.ampp.org/education/education-resources/courses-by-program/general-corrosion/basic-corrosion>

\* **The Certificate of Completion should not be interpreted as the award of AMPP Certification.**

For more information please contact [training@imc-quorum.com](mailto:training@imc-quorum.com)

### Learning Objectives

- ✧ Define corrosion and recognize the economic, environmental and safety impact of corrosion
- ✧ Recognize terms and definitions of basic electrochemistry, as well as define the processes and concepts of electrochemistry, oxidation and reduction reactions, thermodynamics, kinetics, and passivity
- ✧ Identify the characteristics of commonly-encountered corrosive environments such as atmospheric, water and other electrolytes, soil and high temperature environments
- ✧ Distinguish between engineering materials such as metals, non-metals, composites, concrete and ceramics and their relationship to corrosion control
- ✧ Discuss the various forms of corrosion, how to recognize each form, materials subject to each form, environments that promote each form and how to control each form
- ✧ Explain how corrosion can be controlled during the design process through construction, as well as process parameters, drainage, dissimilar metals, crevices, and corrosion allowance
- ✧ Give examples as to how and when to use the control corrosion methods of design, material selection, modification of environment, protective coatings, and cathodic and anodic protection
- ✧ Differentiate between inspection and monitoring and identify the common testing techniques for each

**Course language:**

**ENGLISH**

**DURATION:**

**4-DAY CLASSROOM COURSE**



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