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# NACE CIP Level 1 Study Guide With Complete Solution

Define Corrosion correct answer- The deterioration of a substance, usually a metal from a reaction with its environment

What is passivation? correct answer- A layer of oxides formed on the surface of a metal that provides corrosion protection.

What is an example of passivation? correct answer- Stainless Steel

What are the elements of a corrosion cell? correct answer- Anode, Cathode, Metallic Pathway, Electrolyte

Describe what happens at the anode. correct answer- The metal dissolves into the electrolyte

What is the function of the electrolyte? correct answer- Allows the passage of ions to connect the corrosion cell

What is the function of the metallic pathway? correct answer- Allows the flow of electrons to connect the corrosion cell

What is the galvanic series? correct answer- A listing of metals in order of reactivity (more or less noble) in seawater at 25 C

The general rules of galvanic corrosion are: correct answer- The less noble (or more reactive) metal when connected to a more noble (or less reactive metal) will corrode preferentially

Name the five most important factors that affect the rate of corrosion. correct answer- Humidity, oxygen, chemical salts, pollutants, temperature

General corrosion is: correct answer- Results in a relatively uniform loss of material over the entire surface, Results in a general thinning of the affected surface, Relatively easy to inspect, Does not casue catastrophic failures

Localized corrosion is: correct answer- Typically pitting and crevice corrosion. It is typically of the most concern as damage is concentrated and loss of integrity or structural failure can result.

# Nace Level 1 Study Guide

**Daniela Niemeyer**



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