# NACE CIP Level 1 Study Guide NACE CIP Level 1 Study Guide

Define Corrosion - ansThe deterioration of a substance, usually a metal from a reaction with its environment

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

What is an example of passivation? - ansStainless Steel

What are the elements of a corrosion cell? - ansAnode, Cathode, Metallic Pathway, Electrolyte

Describe what happens at the anode, - ansThe metal dissolves into the electrolyte

What is the function of the electrolyte? - ansAllows the passage of ions to connect the corrosion cell

What is the function of the metallic pathway? - ansAllows the flow of electrons to connect the corrosion cell

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

The general rules of galvanic corrosion are: - ansThe 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. - ansHumidity, oxygen, chemical salts, pollutants, temperature

General corrosion is: - ansResults 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: - ansTypically pitting and crevice corrosion. It is typically of the most concern as damage is concentrated and loss of integrity or structural failure can result.

List some of the common tools/methods used for corrosion control. - ansDesign, Inhibitors, Material Selection, Cathodic Protection, Protective Coatings, Splash Zone Systems, Alteration of the Environment

How does NACE define the inspector's role? - ansThe inspector's role is that of a quality control technician responsible for observing and reporting conformance or deviation from the project specification.

# Nace Cip 1 Guide

**ML Morrison** 



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