
NACE CIP Level 2 Theory/Practical (2024) Questions With Complete Ans.

Describe Passivation Answer- Passivation is the formation of a protective oxide film on the surface reducing its chemical activity and its ability to corrode.

Describe the following factors and how they affect corrosion: Answer- • Oxygen: Oxygen increases the rate of corrosion.

- Temperature: Corrosion usually accelerated with increasing temperature
- Chemical Salts: Increase the rate of corrosion by increasing the efficiency of the electrolyte.
- Humidity (or Wetness): The wetter the environment, the more corrosion is likely to occur.
- Pollutants and Acid Gases: Acid rain, chemical byproducts and chlorides all promote corrosion.

Two broad categories of corrosion can be described as: Answer- General
Localized

Describe Galvanic Corrosion Answer- Galvanic corrosion is an electrochemical action of two dissimilar metals in the presence of an electrolyte and an electron conductive path, which occurs when dissimilar metals come into contact.

Describe Cathodic Protection Answer- Cathodic protection is the reduction or elimination of corrosion by making the structure to be protected a cathode by means of an impressed current or attachment to a galvanic anode.

The two primary types of cathodic protection are: Answer- Impressed Current
Galvanic (Sacrificial)

Impressed current power sources include: Answer- Rectified commercial power
Solar cells
Generators
Fuel cells
Wind-powered cells
Thermoelectric cells

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Carmen Siri



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