Corrosion Technician
Written Exam
Exam Preparation Guide
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Introduction
The Corrosion Technician exam is designed to assess whether a candidate has the requisite knowledge, skills and abilities (KSAs) that a minimally qualified Corrosion Technician must possess. The 49 questions are based on the KSAs a Corrosion Technician needs to be successful in the job. A candidate should have at least two (2) years of experience, possess a wide range of general corrosion related knowledge, and be able to perform a variety of corrosion related tasks.

<table>
<thead>
<tr>
<th>Test Name</th>
<th>AMPP Certified Corrosion Technician</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Code</td>
<td>NACE-CTn-001</td>
</tr>
<tr>
<td>Time</td>
<td>120 Minutes*</td>
</tr>
<tr>
<td>Number of Questions</td>
<td>49</td>
</tr>
<tr>
<td>Format</td>
<td>Computer-Based Testing (CBT)</td>
</tr>
<tr>
<td>Passing Score</td>
<td>Pass or Fail</td>
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</tbody>
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*NOTE: Includes 4 minutes for the non-disclosure agreement and 6 minutes for the system tutorial.

Target Audience
A Corrosion Technician is responsible for performing routine, well defined work under the close direction of Specialist or Senior Technologist personnel. The certification is geared toward persons who will work in the areas of general corrosion, cathodic protection, protective coatings, materials/metallurgy, inhibitors, and/or chemical treatment. The Corrosion Technician may monitor and/or control corrosion, as well as differentiate between inspection and monitoring common testing techniques in a range of environments under supervision.

Requirements

Requirements for Certified Corrosion Technician

Requirements:

Option 1:
- 2 years documented work experience in field of corrosion
- Successful completion of AMPP Basic Corrosion Course or e-Course & Exam

Option 2:
- 2 years documented work experience in field of corrosion
- Corrosion Technician Certification Exam

Course Requirements:

AMPP Basic Corrosion Course or e-Course if Option 1
None if Option 2
Core Exam Requirements:

AMPP Basic Corrosion Exam if Option 1
Exam - Corrosion Technician Written Exam if Option 2

Application Requirements:

Approved Corrosion Technician Application

**Renewal requirements:** Recertification application* required every 3 years

*Approval required

**Exam Blue Print**

NOTE: At the end of the CBT exam the candidate should log on to their AMPP profile to view a bar chart of strengths and weaknesses that correspond to these Domains.

<table>
<thead>
<tr>
<th>Domain 1 - Corrosion Fundamentals</th>
<th>16-20 %</th>
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</thead>
<tbody>
<tr>
<td>Corrosion definition</td>
<td></td>
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<tr>
<td>Electrochemical Cells</td>
<td></td>
</tr>
<tr>
<td>Faraday’s Law</td>
<td></td>
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<tr>
<td>Galvanic Series</td>
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<tr>
<td>Ohm’s Law</td>
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<td>Parts of a corrosion cell</td>
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<td>Pourbaix</td>
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<tr>
<td>Reactions</td>
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</table>

<table>
<thead>
<tr>
<th>Domain 2 - Forms of Corrosion/Corrosion Mechanisms</th>
<th>18-22 %</th>
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</thead>
<tbody>
<tr>
<td>Environmental</td>
<td></td>
</tr>
<tr>
<td>External</td>
<td></td>
</tr>
<tr>
<td>Internal</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Domain 3 - Materials</th>
<th>8-12 %</th>
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<tbody>
<tr>
<td>Material properties</td>
<td></td>
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<tr>
<td>Material selection</td>
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<tr>
<td>Metallurgy</td>
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<table>
<thead>
<tr>
<th>Domain 4 - Corrosion Control</th>
<th>33-37 %</th>
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</thead>
<tbody>
<tr>
<td>Cathodic Protection</td>
<td></td>
</tr>
<tr>
<td>Coatings</td>
<td></td>
</tr>
<tr>
<td>General Corrosion</td>
<td></td>
</tr>
<tr>
<td>Inhibitors</td>
<td></td>
</tr>
</tbody>
</table>
Domain 5 - Forms of Corrosion/Corrosion Mechanisms

Inspection
Recordkeeping/Documentation
Testing

15-19%

Types of Questions

Description of Questions

This is a closed book exam. The questions consist of multiple-choice questions where some questions may have more than one answer. Items with more than one correct answer may contain the phrase “SELECT ALL THAT APPLY” and you will need to select more than one answer choice. The questions are based on the knowledge and skills required in the Corrosion Technician industry.

Sample Questions

The sample questions are included to illustrate the formats and types of questions that will be on the exam. Your performance on the sample questions should not be viewed as a predictor of your performance on the actual test.

1. Which of these is categorized as a coating failure?
   
   SELECT ALL THAT APPLY
   
   A. Cratering  
   B. Cracking  
   C. Pigging  
   D. Alligatoring

2. Chloride contaminations of steel substrates is known to cause:

   A. a treated surface.  
   B. tight adhesion to the primer.  
   C. osmotic blisters.  
   D. electro endosmosis.

3. An inhibitor is a:

   A. nonaqueous pipeline system.  
   B. substance that retards a chemical reaction.  
   C. gaseous environment.  
   D. polarization process.
Answer Key:
1. A, B, D
   Reference: CIP 1

2. C
   Basic Corrosion

3. B
   Reference: Basic Corrosion

Preparation
Suggested Training
AMPP Basic Corrosion Course or e-Course

Suggested Study Material
AMPP Basic Corrosion Manual
AMPP CP 1 Manual
Local and International safety rules/regulations (i.e. OSHA, ISO, etc.)

Standards
NACE TPC-9 User’s Guide to Hot Dip Galvanizing

Reference Material Provided During Exam
No reference material provided. It is closed book exam.

What to Expect on Test Day
Arriving at the Pearson Test Center
When you go to the Pearson Testing Center, there are a few things you should know. Please visit this link for information you should know before you go.
   https://home.pearsonvue.com/test-taker/security.aspx

Computer-Based Test Demonstration
Once you are in the testing room and at the computer, you will start with agreeing to the non-disclosure agreement and have a brief tutorial of using the system. Please visit this link for a demonstration of the computer based exam. You will have the opportunity to practice answering a variety of questions to help you get familiar with how it all works.
   https://wsr.pearsonvue.com/demo/