Offshore Corrosion Assessment Technician Written Exam

Exam Preparation Guide

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Introduction

The O-CAT Technician written exam is designed to assess whether a candidate has the requisite knowledge and skills that a minimally qualified person must possess for in-service inspection and maintenance planning for fixed offshore structures. The 92 multiple-choice questions are based on the O-CAT body of knowledge. A candidate should also have a working knowledge of the Minerals Management Services (MMS) A-B-C-facility evaluation grading system requirements for Level 1 Inspection Reporting.

Test Name	AMPP O-CAT Written Exam
Test Code	NACE-OCAT-001
Time	150 Minutes*
Number of Questions	92
Format	Computer-Based Testing (CBT)
Passing Score	Pass or Fail

**NOTE: Includes 4 minutes for the non-disclosure agreement and 6 minutes for the system tutorial.*

Target Audience

Ideal candidates for O-CAT Technician certification are those involved in corrosion control and integrity management of fixed offshore structures including but not limited to management and planning personnel, field inspectors conducting in-service inspections of the facility, and offshore platform operations personnel.

Requirements

Requirements for O-CAT Technician

Prerequisite (choose one of the following options):
None required
Course Requirements:
Strongly recommend the following course(s): +Course- Offshore Corrosion Assessment Training (O-CAT); and/or +Basic Corrosion Course or Basic Corrosion e-Course
Core Exam Requirements:
Exam – O-CAT Technician written exam

Renewal requirements: Recertification application* required every 3 years

**Approval required*

Exam Blue Print

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

Domain 1- Evaluate platform corrosion system Perform evaluation of an offshore platform corrosion system	**17-22 %**
Domain 2- Testing Methods Evaluate the various testing methods used during the evaluation	**16-21 %**
Domain 3- Safety Identify safety hazards and critical areas of concern	**1-4 %**
Domain 4- Systems and requirements to collect information on platforms Understand the systems and their requirements used to collect information about offshore platforms	**12-17%**
Domain 5- Types of oil platforms/rigs & equipment Recognize the various types of oil platforms/rigs and equipment	**1-3 %**
Domain 6- Primary corrosion protection systems Identify and define the primary corrosion protection systems used in offshore (protective coatings, splash zone systems, cathodic protection, etc.)	**12-17 %**
Domain 7- Role of BSEE and A-B-C- grading system for reporting Understand the role of the Bureau of Safety & Environmental Enforcement (BSEE) and the A-B-C facility evaluation grading system requirements for Level I Inspection Reporting	**1-4 %**
Domain 8- General Knowledge Understanding of general corrosion knowledge applicable to O-CAT	**24-28 %**

Types of Questions

Description of Questions

The questions on this exam are multiple-choice questions, where some questions may have 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 O-CAT industry. While the AMPP training course is an excellent method of preparation it may not be the only reference used in the development of the questions.

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. Platforms that are built on concrete and/or steel legs, anchored directly onto the seabed, designed for long term use because of their immobility, and have a supporting deck with space for drilling rigs, production facilities and crew quarters are called _____ platforms.

    A. Fixed
    B. Tension-leg
    C. Semi-submersible
    D. Jack-up Drilling Rig

2. Which of the following platforms are designed to sustain significant lateral deflections and forces, consist of slender flexible towers, and have a pile foundation supporting a conventional deck for drilling and production operations?

    A. Spar Platforms
    B. Fixed Platforms
    C. Compliant Towers
    D. Jack-up Drilling Rigs

3. If a BSEE inspector finds corrosion-related deterioration that is not a current imminent safety hazard, it is considered a(n):

    A. Water trap.
    B. Critical area of concern.
    C. Non-threat to the substrate.
    D. Incident of non-conformance (INC).

4. The Cubic Space Concept is where structures are configured to allow division into cubes bounded by columns, beams, and cross members.

    A. True
    B. False

Answer Key

1. A
   Reference: O-CAT course manual (2.2.1).

2. C
   Reference: O-CAT course manual (2.2.2).

3. B
   Reference: O-CAT course manual (10.9).

4. A
   Reference: O-CAT course manual (9.3).

Preparation

Training

Offshore Corrosion Assessment Training (O-CAT) Course

Study Material

O-CAT course materials

Reference Material Provided During Exam

O-CAT (2017) course manual (electronically built into the exam)