



Linear Controls, Inc.
107 ½ Commission Blvd
Lafayette, LA 70508

Ph: 337-839-9702
Fax: 337-837-2121
www.linearcontrols.net

LINEARTSACENTER

LINEAR TRAINING AND SKILL ASSESSMENT CENTER

Subpart O/PSST (T-2) Refresher Course Outline

Refresher Production Safety Systems Training - Subpart O

This is a Refresher Course in 30 CFR Part 250 Subpart O and API RP 14C

Course Prerequisites

The individual must have:

- 6 (six) years offshore experience
- Successful completion of 2 (two) instructor led PSST (T-2) courses.
- Possession of a current, valid Production Safety systems (T-2) certification.

Course Structure

This course is an 8 (eight) hour instructor led course, consisting of a power point presentation and other visual representations. Also provided are hand outs, workbooks and instructor led assessments given progressively throughout the class.

Testing Criteria

The written test consists of 94 multiple choice and/or fill in the blank questions. The identification test consists of 82 fill in the blanks questions. The hands on part of the testing is either pass or fail, based off of a visual assessment of the instructor. The criterion for passing is a **total score of 90%**. If the student fails to make a passing grade on the Subpart O-PSST T-2 refresher exam they cannot retest and will have to complete a full Subpart O-PSST T-2 course.

Program Objective

- Understand the symbols and equipment identification codes used in the Oil and Gas Industry;
API-RP 14C 2
- Understand that the safety systems should be able to prevent the release of hydrocarbons from the process and minimize the effects if they occur;
API-RP 14C 3.2
- Understand the need for the Emergency Support System;
API-RP 14C Appendix C.1
- Understand that the safety system should be designed to protect personnel, the environment and the facility from threats to safety caused by the production process;
API-RP 14C 3.1
- Understand the premises for basic analysis and design of the safety system;
API-RP 14C 3.4
- Understand the protection concepts and safety analysis;
API-RP 14C 4
- Interpret and understand how to use the Safety Analysis Tables (SAT), the Safety Analysis Checklist (SAC) and the Safety Analysis Function Evaluation (SAFE Chart)



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API-RP 14C Appendix A.1.2

Identify and understand how to protect the process from the eight major Undesirable Events;

API-RP 14C 4.2.1

- Understand the importance of pollution prevention and control;
CFR 250.300 Subpart C
- Understand that production safety equipment shall be designed, installed, used, maintained and tested in a manner to assure the safety and protection of human, marine and coastal environments;
CFR 250.800 Subpart H
- Understand the basic concepts of installation, maintaining and testing the subsurface safety devices;
CFR 250.801 Subpart H
- Understand basic concepts of installation, maintaining and testing the surface safety devices;
CFR 250.802 Subpart H
- Understand that safety devices shall not be placed in bypass or blocked out of service unless they are temporarily out of service for Start up, Maintenance or Testing;
CFR 250.803 (c) Subpart H
- Understand that ALL SURFACE OR SUBSURFACE SAFETY DEVICES PUT IN BYPASS SHALL BE FLAGGED AND MONITORED UNTIL THE DEVICES ARE PUT BACK IN SERVICE;
CFR 250.803 (c) Subpart H
- Bureau of Ocean Energy Management (BOEM)
BOEM is responsible for managing environmentally and economically responsible development, of the nation's offshore leasing, resource evaluation, review and administration of oil and gas exploration and development plans, renewable energy development, national environmental policy act (NEPA) analysis and environmental studies.
- Bureau of Safety and Environmental Enforcement (BSEE)
BSEE is responsible for the safety and environmental oversight of offshore oil and gas operations, including permitting and inspections of offshore oil and gas operations. Its functions include the development and enforcement of safety and environmental regulations, permitting offshore exploration, development and production, inspections, offshore regulatory programs, oil spill responses and newly formed training and environmental compliance programs.

Modules

Module 1: Introduction to Safety

The purpose and objective of a platforms safety system.

Module 2: Safety Devices, Symbols and Identification

Identify and understand the different symbols and identifications associated with API/ISA for use in drawings, safe charts and tag identifications. Understand what they mean and how are they used to define our safety and process systems.

Module 3: Variables and Undesirable Events

Identify and understand how to protect the process from the eight major Undesirable Events; API-RP 14C 4.2.1

Module 4: Testing Frequencies

Understand the frequencies for testing safety components and devices.

Module 5: Safe Charts

Comprehend the design and use of the Safety Analysis Function Evaluation (chart) and its purpose as related to our safety, the environment and the facility.

Module 6: Government Regulations (BSEE/BOEM)

Understand and comprehends the CFR (Code of Federal Regulations) and why it so important in our



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industry.

Module 7: Hands on

- Demonstrate a working knowledge of ESD stations.
- Demonstrate how to set a SCSSV timer.
- Demonstrate how to set a SSV timer.
- Demonstrates a working knowledge of setting a PSV.
- Demonstrate how to set and test a PSHL
- Demonstrate how to set and test a LSHL (Pneumatic)
- Demonstrate how to set and test a LSHL (Electronic)