

Training - Safety in Storage and Loading Operation



SECORSE-EN-P



Face-to-face only



4 days

This course provides a better understanding of product and equipment risks in order to increase safety behavior in storage and (un)loading activities.

Level

Knowledge

Public

Operating personnel (operators, panel operators, shift leaders, young engineers and terminal managers) in refineries and petrochemical/chemical plants and any staff involved in operations (maintenance, SHE department).

Objectives

Attendees will be able to implement the following skills:

- Identify the risks related to the products used on a facility and the various materials present on the storage units
- Identify possible preventive measures
- Order the different phases of the provision of a storage facility

Pedagogical & technical resources

- E-learning modules before the training to learn & refresh knowledge about risks
- Workshop: decommissioning and commissioning procedure for a typical unit selected based on trainees' origins (atmospheric tanks, under pressure storage, recovery unit, etc.)
- Case studies and analysis of incidents and accidents
- Agenda can be adapted to professional needs from the group of attendees

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsible

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

RODUCTS RISKS: PREVENTION & OPERATING PRECAUTIONS

0.75 day

Case studies involving products risks analyzed in subgroups, in order to strengthen information from the e-

learning. Share ideas with the entire group. Lessons learned.

EQUIPMENT RELATED RISKS - SAFETY DEVICES

1.25 days

Atmospheric and under pressure storage tanks: different kinds of construction, pressure and vacuum resistances, safety devices (vents, relief valves, hydraulic safety shut-off valves, positive safety valves, etc.).

Safety in tank storage operation. Typical incidents.

Loading/unloading tank trucks, railcars, tankers, etc.: loading stations layout (top or bottom fillings), safety devices & safety instrument systems, vapor recovery.

SAFETY IN STORAGE TANKS COMMISSIONING & DECOMMISSIONING OPERATIONS

2 days

General decommissioning approach with 5 different steps. "Zero energy" approach. Understanding & complying to procedures, risks from routine.

Draining-purging-blowdown: safety and environmental aspects.

Degassing-inerting-cleaning: HP cleaning and pumping liquid wastes, type of pumping according to products (volumetric pump, vacuum)

Lockout/Tag-out procedure (LOTO): type of LOTO according to different activities planned.

Works permits: endorsement and responsibilities.

Activities with specific risks: confined space entry. Gas test, ventilation, supervision.

HANDS-ON ACTIVITIES ON A TYPICAL STORAGE EQUIPMENT DECOMMISSIONING

Case study, common thread of this training, used as a workshop with different groups of trainees in order to apply the different topics. Procedure writing with instructions for each step. Presentation to the group, sharing & discussions. Lessons learned.

To French entities : IFP Training is referenced to DataDock ; you may contact your OPCO about potential funding.

Please contact our disabled persons referent to check the accessibility of this training program : referent.handicap@ifptraining.com