IFP Training

This training course is offered under the **Alliance4Training** brand

Training - Safety in Maintenance and Construction Works

SECTRA-EN-P | **Face-to-face only** | **4 days**

This course provides expert knowledge of risks related to construction and maintenance works and insight on how to promote safety practice and ensure safer work conditions and behavior

Level

Knowledge

Public

- Maintenance, operational and SHE staff who handle work permits and monitor contractors on operating plants
- It is also suited for contractors staff in charge of maintenance and construction works

Objectives

Attendees will be able to implement the following skills:

- List the risks associated with the different phases of work
- Identify appropriate means of prevention
- Clarify the responsibilities of each actor

Pedagogical & technical resources

- Detailed case studies based on actual accidents or incidents
- Sharing of experiences among participants

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

Responsable

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

OCCUPATIONAL HEALTH & SAFETY — 0.25 day

Hazard, risk, accident: definitions and differences.
Occupational hazards: related to products, operation and equipment, workplace, and human behavior.
Identification and classification of hazards during execution of maintenance and construction works.

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PRODUCT-RELATED HAZARDS & PRECAUTIONS — 0.5 day

Product-related hazards in refineries, petrochemical and chemical plants: main properties (flammable, explosive, toxic, noxious, corrosive, asphyxiating, harmful for the environment), CMR specific case.
Toxicology: threshold limit values.
Flammability: explosive atmosphere (combustible products: gaseous, liquid and solid); oxidizers; ignition sources (flames, self-ignition temperature, sparks and static electricity, etc.).
Preventive measures and precautions: during normal conditions, before and during hot works, in the event of leaks.

WORK-RELATED HAZARDS — 2.5 days

Decommissioning: risks related to equipment opening and line breaking, isolation procedure, blinding and spading work. Lockout tag-out procedure.
Material transportation equipment, manual and mechanical handling.
Lifting: recommendations regarding lifting equipment, worksite organization, and team composition.
Work in confined spaces: vessel opening, ventilation, gas testing, entry permit, risk variation during work execution.
Work at height: rules for installing and using scaffolding, MEWP (Mobile Elevating Work Platform), and harnesses.
Hot works: welding, cutting and heating, grinding.
High pressure cleaning: use of cleanup tank trucks. Specific risks linked to vacuum pumping.
Miscellaneous works: excavation works, abrasive blasting, painting.
Hazardous radiation: working with radioactive sources, X-ray work, specific risks.
Risks related to electrical work and devices.
Specific Personal Protective Equipment (PPE), recommended for each kind of works.

RISK MANAGEMENT & PREVENTION — 0.75 day

Safety procedures: work permit types and validity; purposes, application, job safety analysis, precautions, constraints; commitment and responsibility of contractors, maintenance.
SHE and issuing operation department; permit endorsement.
Planning and monitoring safety of contracted works on site: coordination with contractors, co-activity and interface management; preparation of prevention plan and risk assessment.
Hazards resulting from unsafe acts and/or unsafe conditions: sources of hazards, task/risk analysis, managing contractors and subcontractors.
Management Of Change (MOC).

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

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