TECHNICAL
EDUCATION
ACADEMY

Operational Risk Management Center

COURSE PROGRAMME

000625

HSSE084 - Process Hazard Analysis Overview

The risk review techniques most popular for initial PHAs of entire units or of large projects, MOC reviews, and PHA revalidations are hazard and operability (HAZOP) analysis and what-if/checklist.



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Course overview

Foundation level

Why take this course

The risk review techniques most popular for initial PHAs of entire units or of large projects, MOC reviews, and PHA revalidations are hazard and operability (HAZOP) analysis and what-if/checklist. Both of these techniques facilitate systematic, imaginative searches for process hazards and potential operational difficulties. In this course, you will also learn how to use the failure mode and effects analysis (FMEA) method and you will learn how to use checklists of hazards to supplement your brainstorming analyses. You will learn the best situations and circumstances to use each technique. You will lead and participate in several analyses to familiarize yourself with each technique.

This training provides general background in how process hazard analyses (PHAs) are performed. It explains the importance of PHAs for existing plants and PHAs/ hazard reviews for changes to processes. This course is for anyone who needs a general understanding of PHAs.

Who it is for and how it helps

Manager, supervisors, engineers and coordinators from Production, Operations, Maintenance, Safety and HR.

What you will learn

- Learn how to meet regulatory requirements for PHAs
- Learn how to conduct team meetings and distribute team member responsibilities
- Learn how to use different hazard review methods
- Learn how to make risk judgments in team settings
- Learn how to develop effective recommendations and how to effectively resolve recommendations

Curriculum

Modules 01–03

01 Introduction to Process Hazard Analysis (PHA)

- Basics of PHAs and other related hazard reviews required over the life of a process
- Overview of team meetings and team member responsibilities • Typical team meeting
- Typical team meeting

02 Risk Review Methodologies

- Overview of risk review methods
- What-if analysis of a simple system
- Overview of making risk judgments in team settings

03 Developing and Resolving Recommendations

- Overview of how to develop effective recommendations and how to effectively resolve recommendations

Joining the programme

Contact the Academy and quote course code 000625 to confirm dates, delivery format, prices and enrolment terms.

Training for your team

Tell us your business goals, the roles and number of participants, and your preferred dates and location. This will help us discuss the right training option.

Preparing for the programme

The published programme does not specify any prerequisites. Contact us before enrolling to confirm how to prepare.

Discuss your training needs

mail@tecedu.org
www.tecedu.academy

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