



PHA · ADVANCED · 3 DAYS

HAZOP Leader / Facilitator

Certification-preparation course for engineers who will lead process hazard studies

DURATION
3 days

LEVEL
Advanced

FORMAT
On-site classroom · virtual instructor-led

LANGUAGE
English

MAX. PARTICIPANTS
16

2

recorded practice sessions

60 %

of time in workshop

1

competency assessment

Overview

A HAZOP is only as good as the person leading it. This course takes experienced engineers through the full facilitation cycle — node definition, guideword discipline, team dynamics, safeguard crediting and action quality — using real refinery and petrochemical P&IDs. Participants lead recorded practice sessions and receive individual feedback against the competencies expected of a certified HAZOP leader.

Learning outcomes

- Plan a study: scope, node breakdown, team composition, schedule and information requirements
- Apply guidewords and parameters systematically without losing the team's attention
- Judge when a safeguard may be credited and when it may not
- Write causes, consequences and recommendations that survive an audit
- Manage difficult sessions: dominant members, scope creep, design-freeze pressure
- Close out: report structure, action tracking, revalidation triggers

Who should attend

Process, safety and project engineers who will lead HAZOP, HAZID and revalidation studies; PSM coordinators

Course outline

DAY 1

HAZOP purpose and regulatory context · IEC 61882 methodology · study preparation and node definition · guideword/parameter matrices · recording standards

DAY 2

Safeguard and IPL logic · linking HAZOP to LOPA and SIL · facilitation skills and team management · practice session 1 on a live P&ID with feedback

DAY 3

Batch and procedural HAZOP · revalidation and cyclic reviews · reporting and action management · practice session 2 · competency assessment

Standards referenced

IEC 61882 · IEC 61511 · OSHA 29 CFR 1910.119(e)
CCPS Guidelines for Hazard Evaluation Procedures

Tools & exercises

Hands-on with CeraPHA Studio for worksheets, safeguard library and action register

What's included

- ✓ Course manual and slide pack
- ✓ Software access for the course
- ✓ Post-course Q&A with the instructor
- ✓ Exercise and case-study pack
- ✓ Competency quiz and certificate
- ✓ Templates used in the exercises

PREREQUISITES

Three or more years of plant or design experience and participation in at least two HAZOP studies

CERTIFICATION

Certificate of completion with competency assessment result; preparation for TÜV-style HAZOP Leader examinations

INSTRUCTORS

Practising engineers — TÜV HAZOP Leader, CCPSC and IEC 61511 Functional Safety certified — with 200+ years of cumulative plant experience.

Book this course or build a custom curriculum

On-site at your plant or virtual · in-house groups · competency assessment included

sales@cerasus.ai · +974 5506 2743

Cerasus Technologies QFZ LLC · Ras BuFontas Free Zone · Doha, Qatar