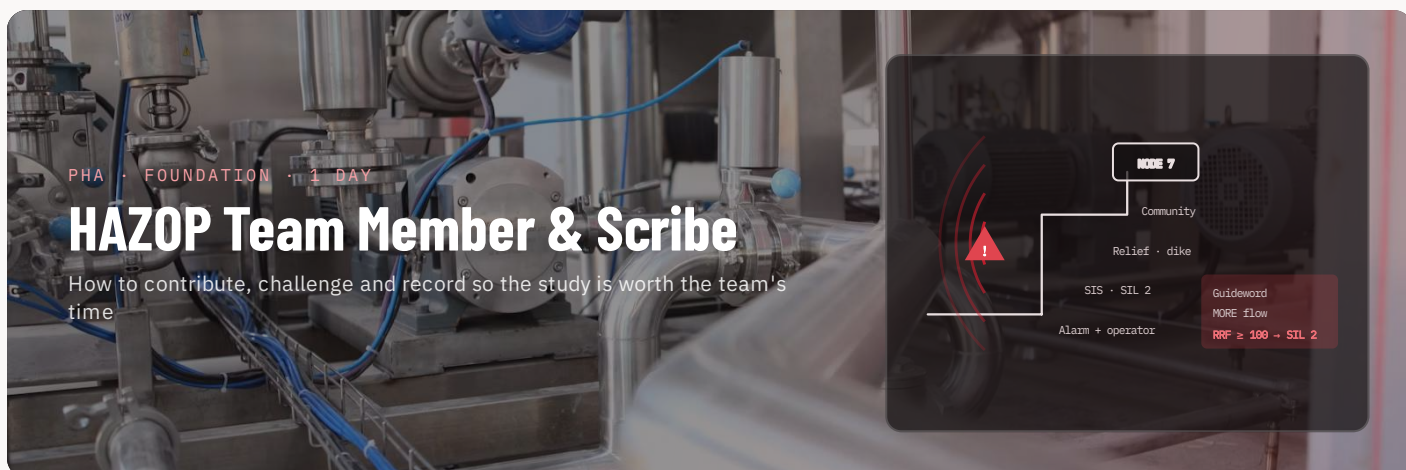




DURATION
1 day

LEVEL
Foundation

FORMAT
On-site classroom · virtual instructor-led

LANGUAGE
English

MAX. PARTICIPANTS
16

4
nodes recorded live

50 %
of time at the worksheet

1
recording-quality check

Overview

A HAZOP team spends most of its week waiting for someone to explain what a guideword means or why the safeguard they named was not credited. This course prepares team members to arrive knowing the method, the vocabulary and what the leader needs from them, and prepares scribes to record causes, consequences and safeguards in a form the study can actually use. Half the day is spent recording real nodes from participants' own units.

Learning outcomes

- Explain the purpose of a HAZOP and how the outcome is used downstream in LOPA, SIL and MOC
- Interpret guideword and parameter combinations and offer credible deviations
- State causes, consequences and safeguards precisely instead of as opinions
- Recognise which safeguards qualify as protection layers and which do not
- Record a worksheet that a reader outside the room can follow
- Prepare for a study: drawings, operating data, incident history and questions to bring

Who should attend

Operations, maintenance, instrument and process engineers and supervisors nominated to HAZOP teams; engineers and technical assistants who will scribe

Course outline

MORNING

What the regulator and the site expect of a HAZOP · IEC 61882 method and terminology · nodes, design intent and deviations · causes, consequences and safeguards · the difference between a safeguard and an IPL

AFTERNOON

Recording conventions and worksheet quality · writing recommendations that can be closed · scribing in CeraPHA Studio · live recording of four nodes from participants' P&IDs · recording-quality check and feedback

Standards referenced

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

Tools & exercises

Worksheets recorded in CeraPHA Studio with the guideword templates and safeguard library

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

Ability to read a P&ID

CERTIFICATION

Certificate of completion; recorded as HAZOP team-member training for the site training matrix

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

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