



DURATION
1 day

LEVEL
Intermediate

FORMAT
On-site classroom · virtual instructor-led

LANGUAGE
English

MAX. PARTICIPANTS
16

4
API RP 754 tiers

1
indicator set built for your site

CeraPulse
hands-on dashboards

Overview

A dashboard of lagging indicators tells management about last year's accidents. The course explains the four API RP 754 tiers, the classification rules for Tier 1 and 2 events, and how to select Tier 3 and 4 leading indicators that measure the health of barriers and management systems. Participants build an indicator set for their own site, define each indicator so it is counted the same way every month, and configure it in CeraPulse.

Learning outcomes

- Classify loss-of-containment events correctly as Tier 1, Tier 2 or neither using the API RP 754 thresholds
- Select Tier 3 indicators tied to barriers: demands on safety systems, SOL excursions, inspections overdue
- Select Tier 4 indicators tied to management systems: action closure, PHA and MOC quality, training
- Write an indicator definition: numerator, denominator, source, owner, frequency
- Present indicators so that trends and targets lead to decisions, not just reporting
- Use the Safety Performance Index to compare units and sites fairly

Who should attend

HSE and process safety managers, PSM coordinators, data owners and site leadership who review process safety performance

Course outline

MORNING

Why metrics failed at Texas City and Buncefield · API RP 754 structure and tiers · Tier 1 and 2 classification rules and worked examples · Tier 3 barrier indicators · Tier 4 management-system indicators · CCPS and IOGP guidance

AFTERNOON

Indicator definition and data quality · targets, normalisation and Safety Performance Index · building the site indicator set · dashboards and reviews in CeraPulse · reporting to leadership and the board · common pitfalls

Standards referenced

API RP 754 · CCPS Process Safety Leading and Lagging Metrics
IOGP Report 456 · HSE HSG254 · CCPS Risk Based Process Safety

Tools & exercises

Indicator definitions and dashboards built in CeraPulse

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
None

CERTIFICATION
Certificate of completion

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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