



TRAINING CATALOGUE • CATEGORY H

Software Product Training

Hands-on half-day courses for users and administrators of every Cerasus application, from installation to a completed study, log or report.

9

COURSES

4.5

TRAINING DAYS

Practitioner-led training for the process industry

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Qatar

Category H · Software Product Training

CODE	COURSE	DURATION	LEVEL	PRIMARY AUDIENCE
H · Software Product Training				
TR-H01	CeraPHA Studio — User Training Hands-on course for HAZOP, LOPA and SIL work in CeraPHA Studio	½ day	Foundation	PHA leaders
TR-H02	CeraVent — User Training Hands-on course for relief, venting and rupture-disc sizing in CeraVent	½ day	Foundation	Process and relief-systems engineers
TR-H03	CeraImpact — User Training Hands-on course for consequence and dispersion modelling in CeraImpact	½ day	Foundation	Process safety and loss-prevention engineers
TR-H04	CeraShift — User Training Hands-on course for the electronic logbook, rounds and shift handover in CeraShift	½ day	Foundation	Panel and field operators
TR-H05	CeraPulse — User Training Hands-on course for process-safety KPIs, indices and audits in CeraPulse	½ day	Foundation	PSM coordinators
TR-H06	CauseIQ — User Training Hands-on course for incident investigation and root cause analysis in CauseIQ	½ day	Foundation	Incident investigators
TR-H07	CeraPID — User Training Hands-on course for loop assessment and model-based tuning in CeraPID	½ day	Foundation	Control and instrument engineers
TR-H08	ProcessVision — User Training Hands-on course for real-time monitoring, historian trending and APC analytics in ProcessVision	½ day	Foundation	Process and control engineers
TR-H09	Kairos — User Training Hands-on course for predicted asset and process health and guardrailed agents in Kairos	½ day	Foundation	Reliability


DURATION
 ½ day

LEVEL
 Foundation

FORMAT
 On-site classroom · virtual instructor-led

LANGUAGE
 English

MAX. PARTICIPANTS
 16

½ day
 hands-on

1
 complete study built

Admin
 module for IT owners

Overview

A short, hands-on course that takes a team from installation to a completed study: setting up nodes and teams, recording a HAZOP, crediting IPLs in LOPA, running SIL determination and producing the report and action register. Administrators cover user roles, libraries and backups.

Learning outcomes

- Create a project, define nodes and load P&IDs
- Record a HAZOP with guideword templates and the safeguard library
- Perform LOPA with IPL credit rules and SIL determination
- Generate reports, action registers and revalidation packs
- Administer users, libraries and client/server settings

Who should attend

PHA leaders, scribes, safety engineers and administrators who will use or manage CeraPHA Studio

Course outline

SESSION 1

Installation and editions · project set-up · nodes, teams and templates · HAZOP recording · safeguard library

SESSION 2

LOPA and SIL determination · reports and actions · import/export · administration · Q&A on participants' own study

Standards referenced

IEC 61882 IEC 61511 CCPS LOPA

Tools & exercises

CeraPHAStudio (web or Windows edition), participants' own licence

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
 Basic PHA knowledge

CERTIFICATION
 Certificate of completion

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

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DURATION
 ½ day

LEVEL
 Foundation

FORMAT
 On-site classroom · virtual instructor-led

LANGUAGE
 English

MAX. PARTICIPANTS
 16

½ day
 hands-on

6
 sizing cases completed

Admin
 module for IT owners

Overview

A short, hands-on course that takes an engineer from installation to a documented relief calculation: setting up a unit and its protected equipment, defining overpressure scenarios, sizing valves and rupture discs for vapour, liquid, two-phase and fire cases, checking inlet and outlet constraints, and producing calculation sheets and the relief register. Administrators cover fluid libraries, valve catalogues and client/server settings.

Learning outcomes

- Create a project, define equipment and set design conditions
- Build overpressure scenarios and calculate relief loads per API 521
- Size PSVs, pilot-operated valves and rupture discs, and check inlet/outlet losses
- Run two-phase and tank-venting cases with the DIERS and API 2000 methods
- Generate calculation sheets, datasheets and the relief register
- Administer users, libraries and client/server settings

Who should attend

Process and relief-systems engineers, inspection engineers and administrators who will use or manage CeraVent

Course outline

SESSION 1

Installation and editions · project set-up and unit conventions · equipment and fluid definition · scenario builder and load calculation · vapour, liquid and fire sizing

SESSION 2

Two-phase and API 2000 tank venting · installation checks and back pressure · reports, datasheets and relief register export · administration and libraries · Q&A on participants' own cases

Standards referenced

API 520 Part I & II API 521 API 526 API 2000 ISO 4126

Tools & exercises

CeraVent (Windows, web or client/server edition), participants' own licence

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

Basic relief-systems knowledge; TR-C01 recommended

CERTIFICATION

Certificate of completion

INSTRUCTORS

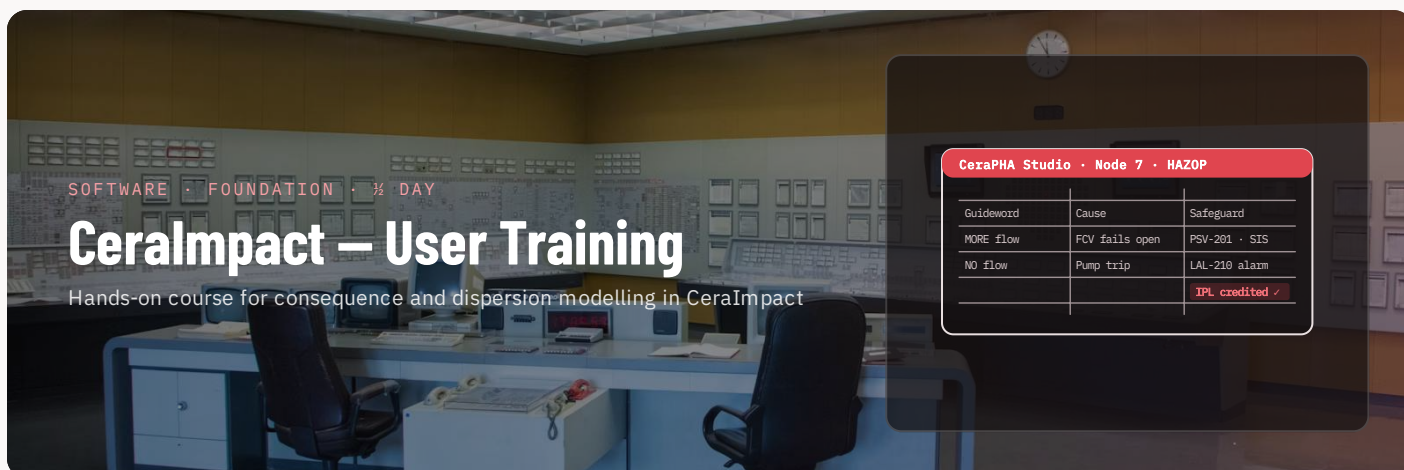
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DURATION
½ day

LEVEL
Foundation

FORMAT
On-site classroom · virtual instructor-led

LANGUAGE
English

MAX. PARTICIPANTS
16

½ day
hands-on

1
plot plan modelled end to end

Admin
module for IT owners

Overview

A short, hands-on course that takes a user from installation to a set of consequence contours on their own site map: importing and georeferencing the plot plan, defining release scenarios and weather sets, running dispersion, fire and explosion models, and mapping the results against occupied buildings and escape routes for API 752/753 work. Administrators cover material databases, weather libraries and client/server settings.

Learning outcomes

- Create a project and georeference a plot plan or satellite image
- Define source terms, hole sizes and weather sets
- Run dispersion, pool fire, jet fire, flash fire and explosion cases
- Overlay harm criteria on buildings and evaluate siting per API 752/753
- Produce contour maps, tables and study reports for PHA and ERP use
- Administer users, material and weather libraries and client/server settings

Who should attend

Process safety and loss-prevention engineers, plant layout engineers, emergency planners and administrators who will use or manage CeraImpact

Course outline

SESSION 1

Installation and editions · project set-up and map import · materials, source terms and weather · dispersion runs and toxic/flamable contours · fire models and radiation levels

SESSION 2

Explosion methods and overpressure contours · building and population overlay · reports, images and export to PHA tools · administration and libraries · Q&A on participants' own site

Standards referenced

API RP 752 / 753 CCPS Guidelines for Consequence Analysis
 TNO Yellow Book API 521

Tools & exercises

CeraImpact (Windows, web or client/server edition), participants' own licence

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

Basic consequence-modelling knowledge; TR-B01 recommended

CERTIFICATION

Certificate of completion

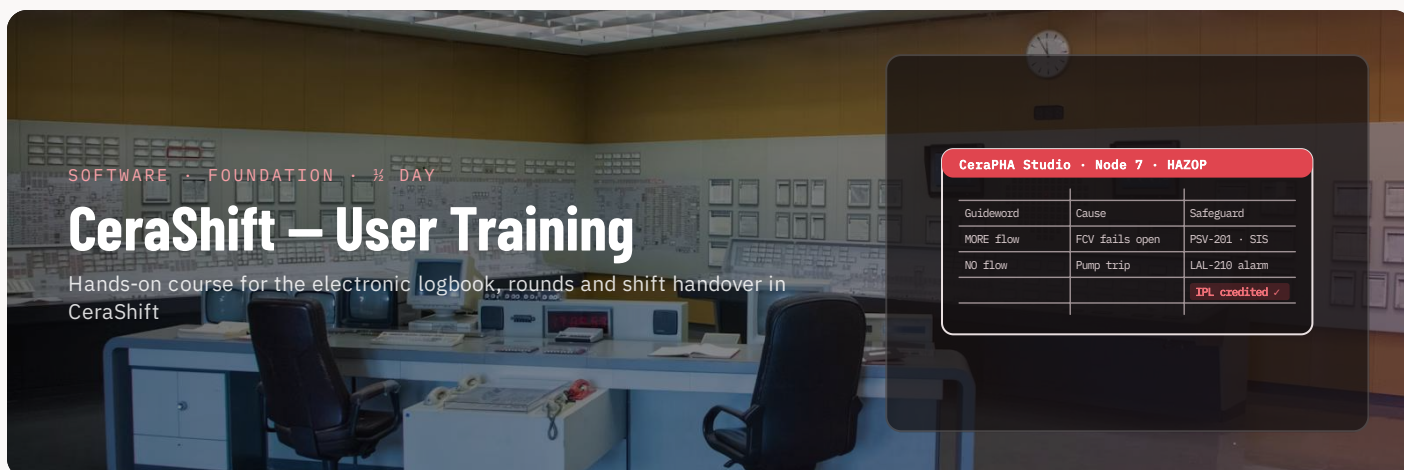
INSTRUCTORS

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DURATION
 ½ day

LEVEL
 Foundation

FORMAT
 On-site classroom · virtual instructor-led

LANGUAGE
 English

MAX. PARTICIPANTS
 16

½ day
 hands-on

1
 shift handover run live

Admin
 module for IT owners

Overview

A short, hands-on course that takes a shift team from installation to a live handover: configuring the unit structure and logbook categories, writing and tagging log entries, running tablet rounds with exception reporting, capturing DCS and PI values into the log, tracking preventive-maintenance tasks and completing a structured e-handover. Administrators cover user roles, templates, historian connections and backups.

Learning outcomes

- Configure units, areas and logbook categories
- Write, tag and search log entries and link them to equipment and work orders
- Build round templates and complete a tablet round with exceptions
- Capture DCS/PI values and trends into the shift log automatically
- Run a structured e-shift handover and sign it off
- Administer users, templates, historian connections and backups

Who should attend

Panel and field operators, shift supervisors, operations engineers and administrators who will use or manage CeraShift

Course outline

SESSION 1

Installation and editions · site and unit structure · logbook entries, tags and search · round templates and tablet rounds · exception reporting

SESSION 2

DCS/PI capture and trend snapshots · PM task tracking · e-shift handover workflow and sign-off · reports and exports · administration · Q&A on participants' own logbook

Standards referenced

CCPS Conduct of Operations OSHA 29 CFR 1910.119(f)

EI Human Factors Briefing Note 3 (Shift Handover)

Tools & exercises

CeraShift (web, tablet or client/server edition), participants' own licence

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; TR-D06 recommended for supervisors

CERTIFICATION

Certificate of completion

INSTRUCTORS

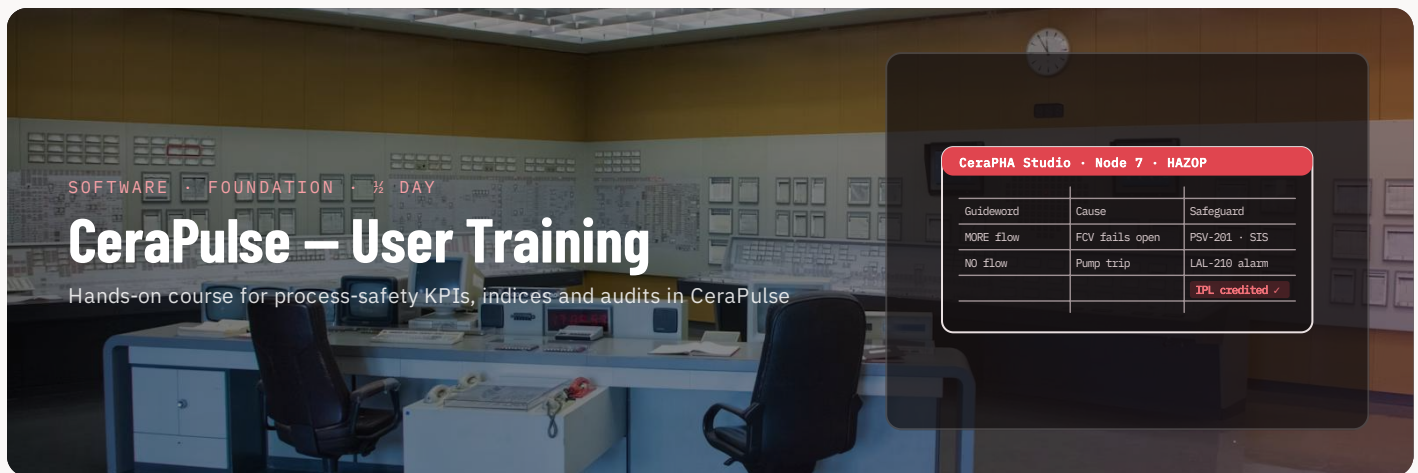
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DURATION
 ½ day

LEVEL
 Foundation

FORMAT
 On-site classroom · virtual instructor-led

LANGUAGE
 English

MAX. PARTICIPANTS
 16

½ day
 hands-on

4
 API 754 tiers configured

Admin
 module for IT owners

Overview

A short, hands-on course that takes a PSM team from installation to a live dashboard: defining the site and unit hierarchy, configuring API RP 754 Tier 1 to 4 indicators and site-specific leading indicators, entering and importing events, building the Safety Performance Index, scheduling audits and producing monthly reports. Administrators cover user roles, indicator libraries and data connections.

Learning outcomes

- Set up the organisation hierarchy and reporting periods
- Configure Tier 1-4 indicators and site leading indicators with thresholds
- Record and classify events and import data from incident and maintenance systems
- Build and interpret the Safety Performance Index and dashboards
- Plan, execute and close out audits with findings and actions
- Administer users, indicator libraries and data connections

Who should attend

PSM coordinators, HSE engineers, element owners, site managers and administrators who will use or manage CeraPulse

Course outline

SESSION 1

Installation and editions · organisation set-up · API RP 754 tiers and indicator definitions · event entry and classification · leading indicators and thresholds

SESSION 2

Safety Performance Index and dashboards · audit module and action tracking · monthly and board reports, export · administration · Q&A on participants' own indicators

Standards referenced

API RP 754 · CCPS Process Safety Leading and Lagging Metrics
 OSHA 29 CFR 1910.119 · IOGP Report 456

Tools & exercises

CeraPulse (web or client/server edition), participants' own licence

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

Basic PSM knowledge; TR-D08 recommended

CERTIFICATION

Certificate of completion

INSTRUCTORS

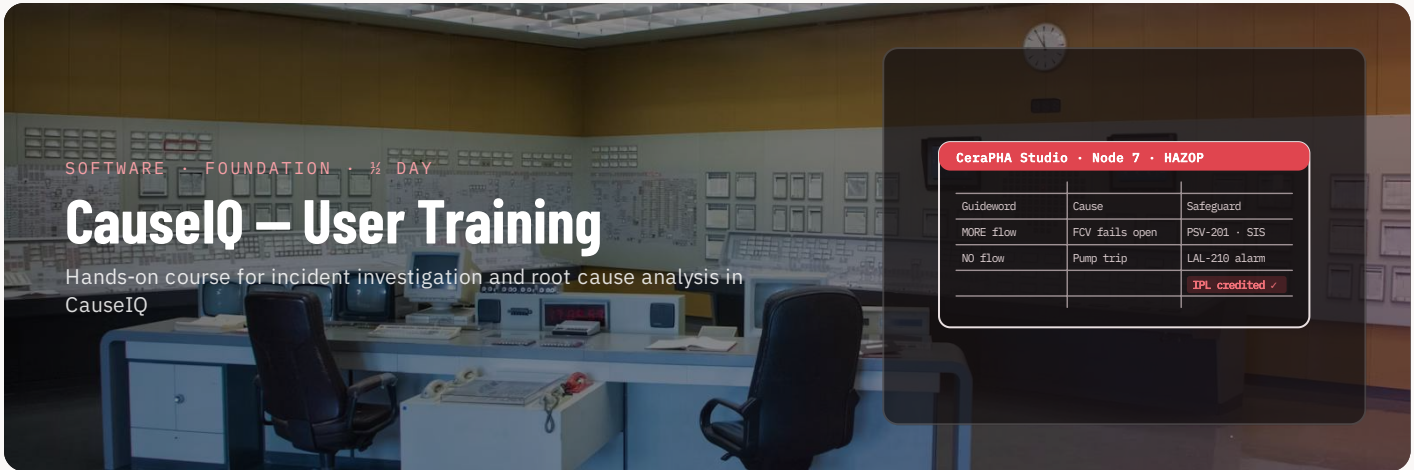
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SOFTWARE · FOUNDATION · ½ DAY

CauseIQ – User Training

Hands-on course for incident investigation and root cause analysis in CauseIQ

CeraPHA Studio · Node 7 · HAZOP

Guideword	Cause	Safeguard
MORE flow	FCV fails open	PSV-201 · SIS
NO flow	Pump trip	LAL-Z10 alarm
		IPL credited ✓

DURATION
 ½ day

LEVEL
 Foundation

FORMAT
 On-site classroom · virtual instructor-led

LANGUAGE
 English

MAX. PARTICIPANTS
 16

½ day
 hands-on

1
 investigation completed

Admin
 module for IT owners

Overview

A short, hands-on course that takes an investigation team from installation to a closed report: opening an incident, building the timeline from evidence, running 5-Whys, fault tree and barrier analysis, linking causes to the PHA and its safeguards, and issuing recommendations with tracked actions. Administrators cover user roles, taxonomies and integration with the PHA and action systems.

Learning outcomes

- Register an incident, classify it and attach evidence
- Build an event timeline and identify conditions and deviations
- Apply 5-Whys, fault tree and barrier analysis to reach root causes
- Link failed barriers to the PHA safeguards and IPLs they represent
- Write recommendations, assign actions and produce the investigation report
- Administer users, cause taxonomies and system links

Who should attend

Incident investigators, HSE and process safety engineers, supervisors and administrators who will use or manage CauseIQ

Course outline

SESSION 1

Installation and editions · incident registration and classification · evidence and interview records · timeline builder · 5-Whys and causal factor charting

SESSION 2

Fault tree and barrier analysis · PHA link and safeguard failure mapping · recommendations, actions and reports · lessons-learned export · administration · Q&A on participants' own incident

Standards referenced

CCPS Guidelines for Investigating Process Safety Incidents

OSHA 29 CFR 1910.119(m) API RP 754

IEC 61025 (Fault Tree Analysis)

Tools & exercises

CauseIQ (web or client/server edition), participants' own licence

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

Basic incident-investigation knowledge; TR-D09 recommended

CERTIFICATION

Certificate of completion

INSTRUCTORS

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DURATION
 ½ day

LEVEL
 Foundation

FORMAT
 On-site classroom · virtual instructor-led

LANGUAGE
 English

MAX. PARTICIPANTS
 16

½ day
 hands-on

3
 loops assessed and retuned

Admin
 module for IT owners

Overview

A short, hands-on course that takes a control engineer from installation to a retuned loop: connecting to the historian, importing the loop inventory, running the plant-wide loop assessment, reading the KPIs and valve diagnostics, identifying a process model from step or closed-loop data and calculating IMC/lambda tuning with a documented change record. Administrators cover historian connections, DCS tag mapping and user roles.

Learning outcomes

- Configure historian and DCS connections and import the loop inventory
- Run the plant-wide loop assessment and rank loops by performance and impact
- Interpret loop KPIs: oscillation, variability, saturation and stiction
- Identify a process model from historical or step-test data
- Calculate and document IMC/lambda tuning and simulate the response
- Administer users, tag mapping and assessment schedules

Who should attend

Control and instrument engineers, process control specialists, console supervisors and administrators who will use or manage CeraPID

Course outline

SESSION 1

Installation and editions · historian and DCS connections · loop inventory and tag mapping · plant-wide assessment and KPI dashboard · valve diagnostics and stiction detection

SESSION 2

Model identification from step and closed-loop data · IMC/lambda tuning and simulation · tuning reports and change records · export to MOC · administration · Q&A on participants' own loops

Standards referenced

ISA-5.1 ANSI/ISA-75.25.01 (Control Valve Response)
 ISA-TR75.25.02 IEC 61131-3

Tools & exercises

CeraPID (Windows or client/server edition) connected to the participants' historian where available

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

Basic control knowledge; TR-E02 recommended

CERTIFICATION

Certificate of completion

INSTRUCTORS

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DURATION
 ½ day

LEVEL
 Foundation

FORMAT
 On-site classroom · virtual instructor-led

LANGUAGE
 English

MAX. PARTICIPANTS
 16

½ day
 hands-on

2
 modules: CeraControl and CeraTrace

Admin
 module for IT owners

Overview

A short, hands-on course covering both halves of ProcessVision: CeraTrace for historian trending, early-warning limits and event annotation, and CeraControl for APC analytics, model discovery and step-test planning. Participants build a monitoring view for their own unit, set early-warning limits on key variables, review controller utilisation and plan a step test. Administrators cover historian and APC connections, user roles and displays.

Learning outcomes

- Connect historians and build trend displays and monitoring views
- Set early-warning limits and soft-sensor calculations on key variables
- Annotate events and share views across the shift team
- Review APC controller utilisation, constraint activity and model quality
- Run model discovery and plan a step test in CeraControl
- Administer users, connections, displays and alert routing

Who should attend

Process and control engineers, APC engineers, console supervisors and administrators who will use or manage ProcessVision

Course outline

SESSION 1

Installation and editions · historian connections and tag browsing · CeraTrace trending, calculations and early-warning limits · event annotation and sharing · alert routing

SESSION 2

CeraControl: controller KPIs and utilisation · model discovery and quality assessment · step-test planning · reports and exports · administration · Q&A on participants' own unit

Standards referenced

ISA-18.2 ISA-101 ISA-95 / IEC 62264 OPC UA (IEC 62541)

Tools & exercises

ProcessVision (web or client/server edition) connected to the participants' historian where available

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

Basic process control knowledge; TR-E05 recommended

CERTIFICATION

Certificate of completion

INSTRUCTORS

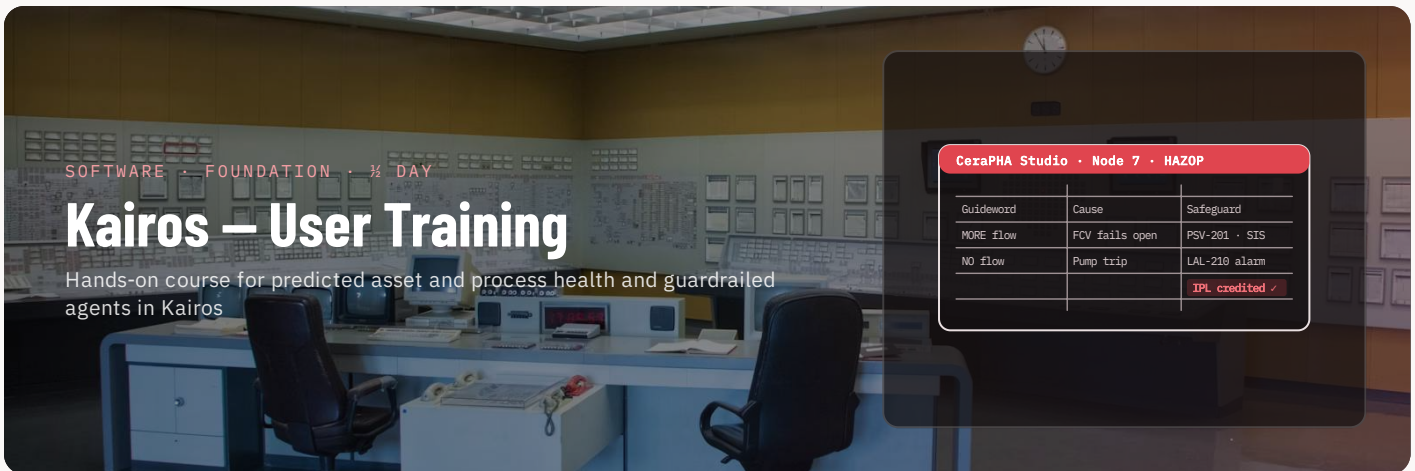
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DURATION
 ½ day

LEVEL
 Foundation

FORMAT
 On-site classroom · virtual instructor-led

LANGUAGE
 English

MAX. PARTICIPANTS
 16

½ day
 hands-on

1
 asset-health model deployed

Admin
 module for IT and OT owners

Overview

A short, hands-on course that takes a team from installation to a working health model: connecting data sources over OPC UA and historian interfaces, defining assets and process units, training and deploying a predicted-health model, reading explained alerts and configuring a guardrailed agent with approval steps. Administrators cover the IEC 62443 security zones, user roles, model governance and audit logs.

Learning outcomes

- Connect OPC UA, historian and CMMS data sources and define the asset model
- Train, validate and deploy an asset or process health model
- Read explained alerts and trace them back to contributing variables
- Configure a guardrailed agent with permitted actions and human approval
- Review model performance and manage retraining and versioning
- Administer security zones, users, model governance and audit logs

Who should attend

Reliability, process and control engineers, data analysts, OT/IT administrators who will use or manage Kairos

Course outline

SESSION 1

Installation and editions · data connections and asset model · health-model training and validation · explained alerts and root-variable view · alert routing to CeraShift and CMMS

SESSION 2

Guardrailed agents: scope, actions and approvals · model monitoring and retraining · reports and exports · administration and IEC 62443 zones · Q&A on participants' own assets

Standards referenced

ISO 13374 · ISO 17359 · IEC 62443 · OPC UA (IEC 62541)

Tools & exercises

Kairos (web or client/server edition) connected to a sandbox or the participants' data sources

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

Basic reliability or process-data knowledge; TR-E06 recommended

CERTIFICATION

Certificate of completion

INSTRUCTORS

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