

COURSE DESCRIPTION

CHH619 – Knowledge Manager and LIMS Application Engineering

Course goal

The goal of this course is to teach students how to use and manage the Knowledge Manager (KM) as well as the Laboratory Information Management System (LIMS) and to let them understand the principles of system configuration.

Main learning objectives

The participants will be able to:

- Use and manage the basic function of the Knowledge Manager (KM) and the Laboratory Information Management System (LIMS)
- Understand the principles of system configuration

Participant profile

This training is targeted to process, electrical, control engineers and laboratory staff who are going to maintain the system and use its functions.

Prerequisites

Participants should have basic knowledge of the plant's control system and laboratory processes, a good knowledge of MS Windows, data handling and reporting requirements as well as fluent technical English.

Topics

- Explanation and use of the standard features
- Data collection and process data management
- Configuring new channels, signals and history logs for process and quality data
- Creating calculations for KPIs
- Creating and modifying templates and reports for process, production and quality data

- Managing stops and downtime
- Downtime reporting and root cause analysis
- Designing analysis definitions and plans
- Sample management, registration and scheduling
- Managing work lists
- Manual entry forms
- Using LIMS materials
- Configuring specification limits and validation rules
- Defining addresses and locations
- Managing laboratory equipment and their calibration
- Introduction to Excel Add-In and statistical production analysis tool
- Managing user access
- Basic system administration

Course type and methods

This is an instructor-led course with interactive classroom discussions and associated lab exercises. Approximately 50% of the course is hands-on lab activities.

Duration

The duration is 5 days:

- 8 hours daily for face-to-face classes
- 5 hours daily for remote sessions

Remarks

This course can be delivered at our Learning Center in Switzerland, at your site or as a remote session.

Course map

	DAY 1	DAY 2	DAY 3	DAY 4	DAY 5
Topics	Welcome, personnel introduction Course overview System architecture Personal Assistant tour / KM Configuring Operation Reports and Trends in Personal Assistant	Review day 1 Tour of the toolkit Channels Configuring signals Types of logs and their configuration	Review day 2 Introduction to templates Building reports: Manual Entries, Mimics, Production Reports, Daily Weekly Reports and Charts Introduction to downtime management	Review day 3 Personal Assistant tour / LIMS Configuring measurements Creating analysis definitions and plans Creating addresses Configuring locations Creating attributes Managing equipment calibration Managing limits and validations rules	Review day 4 Statistical production analysis tools Excel Add-In Building reports for process and LIMS Summary Questions and answers Tips and tricks from the trainer Evaluation Course close
Time (face-to-face class)	9:00 am – 5:00 pm	9:00 am – 5:00 pm	9:00 am – 5:00 pm	9:00 am – 5:00 pm	9:00 am – 5:00 pm
Time (remote session)	to be defined	to be defined	to be defined	to be defined	to be defined

Typical course layout (time or sequence may change)