CHH620
Laboratory Information Management System (LIMS) – Application Engineering

Course goal

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

Learning objectives

Upon completion of this course the participants should be able to:

– Use and manage the Laboratory Information Management System (LIMS) effectively

– Understand the principles of effective system configuration

Participant profile

This training is targeted to laboratory staff and managers who are going to maintain the system and use its functions.

Prerequisites

Participants should have basic knowledge of laboratory processes, data handling and reporting requirements. They also need good knowledge of MS Windows as well as fluent technical English.

Topics

– Explanation and use of the standard features

– Sample management, registration and scheduling

– Managing work lists

– Manual entry forms

– Configuring new quality signals and attributes

– Defining history logs for lab data

– Defining addresses

– Managing laboratory equipment and their calibration

– Defining sample locations

– Designing analysis definitions

– Specifying analysis plans

– Using LIMS materials

– Configuring specification limits and validation rules

– Configuring LIMS templates, reports, charts and certificates

– Introduction to Excel Add-In and Statistical Production Analysis tools

– 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.

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ABB

Course outline

Day 1	Day 2	Day 3	Day 4	Day 5
– Welcome, personnel introduction	– Review	– Review	– Review	– Review
– Course overview	– Tour of the toolkit	– Managing limits and validation rules	– Automatic scheduling of samples	– Statistical production analysis tools
– System architecture	– Channels, signals and logs	– Configuring calculated measurements	– Building reports with graphs	– Excel Add-In
– LIMS concept	– Creating attributes	– Managing equipment and their calibration	– Building advanced LIMS reports: spreadsheet and certificates	– Summary
– Personal Assistant tour / LIMS	– Configuring measurements with signals and attributes	– Building templates and reports		– Question and answers
– Configuring sample reports and trends in Personal Assistant	– Creating analysis definitions and plans			– Tips and tricks from the trainer
	– Defining materials and groups			– Evaluation
	– Creating addresses			– Course close
	– Configuring locations			

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