

CENTUM CS 3000 BATCH

This course is designed to familiarize the participants with the features and terminology of batch processes, the engineering methodology for automating a batch plant, and the implementation of batch control and recipe management on the CENTUM CS 3000 batch platform.

Course Code CKBC

Duration 5 days

Max Class Size 12

Prerequisite Participants should have attended Centum CS 3000 Engineering course.

Who should attend this course?

For application/process engineers responsible for the design, implementation, or application maintenance of a CS3000 batch control system.

Day 1

Introduction on characteristics & control requirements of batch processes
ISA S88.01 Batch Control Models & terminology
General Batch Control Engineering Methodology Overview and Step-by-step activities involved in CS3000 batch packages
Laboratory work : Familiarization with an automated recipe & simultaneous execution of multiple batches

Day 2

Concept of Unit Supervision and Batch Engineering Activities
Management of Shared Resources
Laboratory work : Building Unit Instruments and Supporting Instruments
Concept of Recipe Common Blocks
Laboratory work : Setup of User-defined Common blocks, Project Backup & restore

Day 3

Derivation of Batch Operations from a Recipe
Concept of SFC Sequences, Operations & Phases
Operation SFC Function Blocks & Basics of SEBOL Batch Control Language
Laboratory work : Building SFC sequences, Operation SFC Instruments

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Day 4

Concept of Process Management, Batch Plant
Trains and Paths

Laboratory work: Building Trains & Paths

Concept of Master Recipe, Overview of Batch
Operation & Monitoring Screens

Laboratory work : Loading and operation of a
Control Recipe & Building Master recipe

Day 5

Concept of Exception Handling Logic

Laboratory work : Modification of master recipe
to include Exception handling

Customizing the State Transition Matrix and
concept of Batch Report

Laboratory work : Creating a Custom State
Transition Matrix