COURSE DESCRIPTION

CHH686 – UMC100 I Standard

Course goal
The goal of this course is to provide participants with the required theoretical knowledge to use, set and optimize the UMC100 system.

Main learning objectives
The participants will be able to:
— Identify the hardware components and the installation principles
— Understand the functionality of the main components of the MNS and the UMC100
— Assist the ABB commissioning engineer on-site during installation, erection and commissioning phase
— Use, set and document UMC100 workouts during erection and operation of the plant

Participant profile
This training is focused to engineering staff, design, planning as well as commissioning, maintenance and service personnel.

Prerequisites
Participants should have basic know-ledge about electro technics and intelligent systems and they should have some computer skills.

Topics
— Functionality of UMC
  - Comparison of TOL vs. UMC100
  - Basic functionality of UMC
— System overview
  - UMC HW description
  - FBP communication
  - SW PBDTM (short presentation)
— Commissioning and tests
  - Addressing, starter type, control access
  - Test mode, UMC-PAN
  - Local start/stop with UMC-PAN
  - Signal check
— Communication with DCS
  - Profibus specific information

  - Change parameter, lock parameters
  - UMC data structure
— Settings over LCD panel
  - Parameter transfer
  - Default settings
  - Trip reset
— Special application settings
  - UMC setting solutions for special requirements
— Documentation and support helpline

Course type and methods
This is an instructor-led course (various subject-matter experts) with discussions, demonstrations and associated theoretical exercises. Limited practical hands-on activities are also part of this basic course.

Duration
The duration is 1 day.

Remarks
This training course will be executed at ABB factory and training facilities in Switzerland before installation and commissioning of the UMC100 system at customer site and shall be scheduled accordingly.

Course map
— Welcome, personnel introduction
— Course introduction
— System overview
— Hardware overview
— Setting overview
— Short exercise with UMC100
— Troubleshooting
— Questions and answers
— Evaluation
— Course close

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