COURSE DESCRIPTION

CHH684 – MNSiS I
Standard

Course goal
The goal of this course is to provide participants with the required theoretical knowledge to use, set and optimize the MNSiS 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 MNSiS system
— Assist the ABB commissioning engineer on-site during installation, erection and commissioning phase
— Use, set and document MNSiS workouts during erection and operation of the plan

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

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

Topics
— General system overview
— Functional description of MNSiS system
  - MNSiS applications
  - Ratings
  - Design aspects
  - Compartment rooms in MNSiS
  - Functional aspects
  - Several module types for different requirements
— Functional description of MNSiS of the main components
  - System overview
  - Interface DCS/LVS MLink
  - Control and protection MControl
  - Power module, MStarts
  - Human machine interface MView
  - Control and power condaptors
— Parameterization tool
  - Installation of MNavigate
  - Tool description
  - How to use it
— DCS and switchgear communication
  - Fieldbus interface
  - MView interface
— Erection and service instructions
  - Use of information in MNSiS
  - MNSiS documentation
  - Hardware exchange
  - Software upgrades

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 2 days.

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

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<th>DAY 1</th>
<th>DAY 2</th>
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<td>Welcome, personnel introduction</td>
<td>Review day 1</td>
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<tr>
<td>Course introduction</td>
<td>Installation of SW tools</td>
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<td>MNSIS System overview</td>
<td>Practical exercise with SW tools</td>
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<td>Hardware overview</td>
<td>Troubleshooting</td>
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<td>Software overview</td>
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<td>Tool overview</td>
<td>Questions and answers</td>
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<td>Evaluation</td>
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<td>Course close</td>
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### Topics

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<th>Topics</th>
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<tr>
<td>Time</td>
<td>9:00 am – 5:00 pm</td>
<td>9:00 am – 5:00 pm</td>
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Typical course layout (time or sequence may change)