

## PCS 7 CEMAT

### General Information

Course Code: SCT-PCCMTP1A  
Length: 4½ Days

### Audience

Commissioning and configuring engineers, as well as service and maintenance personnel responsible for operating, optimizing and troubleshooting a PCS7 system used in cement and mining plants should attend this course.

### Prerequisites

- PCS7 System Engineering 1

### Profile

CEMAT is a process control system based on SIMATIC PCS7, which is used in Cement and Mining plants. The CEMAT blocks and faceplates have been developed according to the requirements of the Cement and Mining industry and they are used in cement and mining plants all over the world. The participants of this course get familiar with the most important control and supervision functions of CEMAT.

A function overview explains the operation and diagnostic functions. Based on application examples, the learner is taught the functions of the CEMAT Objects and the most important block interfaces. With practical exercises, the participant learns the engineering rules for the connection of CEMAT blocks and for the parameterization of the HMI interface. It will also be explained how to create a PCS7 project for CEMAT.

### Topics

1. Function Overview CEMAT
2. Module Structure, Control Philosophy, Diagnostic functions, Control Modes
3. Library Minerals Cemat
  - a. Open loop control and closed loop control functions in CEMAT,
  - b. Connecting the CEMAT Blocks in CFC,
  - c. Generation of Process Pictures using CEMAT Symbols and Faceplates
4. Configuration settings for CEMAT