

# CENTUM CS 3000 MAINTENANCE

This course is designed to provide participants with an overall understanding of CENTUM CS 3000 hardware, maintenance procedures, software installation, backup procedures and maintenance tools.

**Course Code** CKMN

**Duration** 3 days

**Max Class Size** 12

**Prerequisite** Participants should preferably be familiar with CENTUM CS 3000 operation and engineering.

## Who should attend this course?

For engineers and technicians who need to perform maintenance on CENTUM CS 3000 system.

### Day 1

Control station hardware overview  
Wiring of control bus  
Functions of each unit  
Maintenance of FCS  
FCS status display window  
Laboratory work : Hardware setting, modifying  
Vnet connection on-line, replacing FCS parts

### Day 2

Requirements for installation  
Hardware/software environment  
Software list/installation, Windows OS setup procedure  
Trouble-shooting for installation and Backup procedure

### Day 3

Network operation/specifications  
Time management function  
Vnet TCP/IP communication function  
HIS communication function trouble-shoot  
VL-net utility commands  
Trouble-shooting of overall windows  
Windows TCP/IP trouble-shooting tools  
Information to be gathered in case of trouble  
FCS communication function trouble-shooting