



## COURSE DESCRIPTION

This course is an advanced training course for customers who'd like to learn how to maintain 840D/611D controller and the drives. The goal of this course is to provide students with proficient knowledge and skills to diagnose and troubleshoot 840D/611D controller problems.

A SIEMENS simulator will be used in the class. This simulator is built with the real components of the controller as on TRUMPF machines—it has the NCU/PLC modules, the MMC, MTT, BitBus, NCK terminal block as well as the Simodrive 611D. Upon completion of the course, students will be able to backup the hard drive, upgrade software, and troubleshoot various 840D/611D controller problems.

## TARGET AUDIENCE

Customer personnel with service responsibility (by special invitation only) and TRUMPF Service Engineers

## PREREQUISITES

Special invitation through TRUMPF Training Manager.

## COURSE DURATION

1 week

## OBJECTIVES

- Discuss controller system components and relationships
- Identify major hardware components in the controller system
- Discuss the differences between Windows & NT systems
- Discuss MMC boot-up sequence and identify BIOS settings
- Identify 4 servers and their functions
- Discuss Windows and NT database structures and practice different methods to restore corrupt databases
- Backup data using the GHOST tool
- Introduction to NCK & PLC. Troubleshoot NCK & PLC problems
- Scrub and reload NCK & PLC
- Setup network using TCP/IP and other protocols
- Upgrade software

**TRUMPF**



Training Department  
c/o TRUMPF Inc.  
111 Hyde Road  
Farmington, CT 06032

Contact Kathy Coco at 860-255-6068  
[training@us.trumpf.com](mailto:training@us.trumpf.com)

## COURSE OUTLINE

- Introduction to controller system components
- Introduction to MMC/MSTT hardware components
- Introduction to MMC boot-up sequence
- Introduction to TRUMPF controller servers
- Introduction to BOF Autostart
- Introduction to MMC & NT directory structures
- Introduction to NT TRUMPF operating system (TOS)
- Discuss database structure
- Discuss NT diagnostic tools
- Introduction to database backup
- Introduction to NCK basics
- Introduction to Software load tool
- Introduction to data blocks
- Introduction to PLC basics
- Discuss VDI interface
- Discuss PLC interface diagnostics in NT
- Discuss interpretation of PLC error messages
- Introduction to BitBus telegram diagnostics
- Introduction to Simodrive 611

CUSTOMER SERVICES

COURSE OUTLINE