Attention: The following topics are *not* addressed during this class:

- PLC programming
- Motion Control
- TwinSAFE
- Fieldbuses not described in the topics below

Prerequisite:

Students are expected to know basic computer skills, including file and folder management.

Topics Covered

Documentation – Catalog and Information System

I/O and Bus coupler Diagnostics

- Hardware Identification
- EtherCAT I/O Hardware
- K-Bus
- Terminal Wiring
- Grounding
- Power Rail
- Replacing Terminals
- Bus Coupler LEDs

eXtended Automation Architecture

TwinCAT Overview - Using the Visual Studio IDE

Scanning/Communicating with Hardware

Using the System Manager as a troubleshooting tool

Troubleshooting EtherCAT networks

Troubleshooting K-bus networks

IPC Diagnostics

Connecting PLC Variables to Hardware

- Linking the PLC variables to Hardware
- Simple PLC Program – Connecting inputs and outputs

TwinCAT Measurement

Installing TwinCAT

Downloading from the Web

Licensing

Beckhoff Automation LLC
13130 Dakota Ave. Savage, MN 55378
Phone: +1 (952) 890-0000
E-Mail: TrainingUSA@beckhoff.com
www.beckhoffautomation.com

31.10.2017
Page 1 of 2

Remote Connections