

TR3050 - Outline

TwinCAT 3 Training: NC Point-to-Point (5 days)

⚠ Attention - The following topics are not addressed during this class

- TwinSAFE
- Fieldbuses
- Motion Troubleshooting
- CNC Applications
- Interpolated Motion
- G-Code

Audience:

Machine developers or end users who are tasked with configuring and programming motion control.

Prerequisite:

- Experience in handling of TwinCAT 3 software
- TR3025 or relevant experience in IEC 61131-3 programming
- Secure knowledge of programming in ST, Structured Text

Topics Covered:

- Beckhoff Motion Product Overview
- Motion Hardware Considerations
- Motion Designer
- Basic Stepper Drive Configuration
- Basic Servo Drive Configuration
- TwinCAT NC
- Motion Programming - MC2 Library
- Drive Manager 1
- Drive Manager 2
- Tuning
- Gearing (Linear Coupling)
- Flying Saw Basics
- Cam Table Basics (Non-Linear Coupling)
- Error Logging and General Recovery
- Homing
- Modulo Motion