

NX8 CAM Trainer Test Syllabus

Required courses:

- NX Manufacturing Fundamentals
- Fixed Axis Techniques
- Multi-Axis Techniques
- NX CAM Customization
- Post Building Techniques

Primary course topics:

1. NX Manufacturing Fundamentals

- Basic CAM Function
- Tools
- Cavity Mill
- Operation Navigator
- Machine Coordinate System
- Visualization (ISV)
- Planar Milling
- Face Milling
- Drilling
- Tool Path Information Output

2. Fixed Axis and Multi-Axis Techniques

- WAVE Geometry Linker in Manufacturing
- Advanced Cavity Milling Topics
- Plunge Milling
- Z-Level Machining
- NC Assistant
- High Speed Machining
- Fixed Contour Operation Types
- Streamline Drive Method
- Five Axis Z Level
- Sequential Mill Basics
- Variable Contour Basics

3. NX CAM Customization

- Tool and Machining Data Libraries
- Manufacturing Wizards
- Manufacturing Wizard Builder

- Templates
- Hole Making

4. Post Building Techniques

- NX/Post Post Processor
- Building a Post Processor with Post Builder
- Post Builder for 5-Axis Mill Applications
- TCL Basics for Post Processors
- Customizing Post Processors with Post Builder
- User Defined Events (UDE)

Test paper:

English/Chinese

Test mode:

- Written Test ($\geq 70\%$)
- Hands-On Test ($\geq 70\%$)
- Lecture Interview for new trainer only (30 minutes)