

Siemens NX X

COURSE CONTENT

GET IN TOUCH



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About Multisoft

Train yourself with the best and develop valuable in-demand skills with Multisoft Systems. A leading certification training provider, Multisoft collaborates with top technologies to bring world-class one-on-one and certification trainings. With the goal to empower professionals and business across the globe, we offer more than 1500 training courses, which are delivered by Multisoft's global subject matter experts. We offer tailored corporate training; project Based Training, comprehensive learning solution with lifetime e-learning access, after training support and globally recognized training certificates.

About Course

Siemens NX X Training equips professionals with practical skills to design, modify, and validate products using Siemens' cloud-enabled CAD/CAM/CAE platform. The course covers part modeling, assemblies, drafting, sheet metal, surface design, CAM fundamentals, simulation basics, and collaborative engineering workflows. Through hands-on projects, participants gain the expertise required to develop industry-ready product designs and streamline engineering processes using Siemens NX X.

Module 1: Introduction to Siemens NX X

- ✓ Siemens NX X Overview
- ✓ User Interface
- ✓ Navigation Tools
- ✓ Cloud Environment
- ✓ File Management
- ✓ Product Development Workflow

Module 2: Sketching Fundamentals

- ✓ Sketch Creation
- ✓ Geometric Constraints
- ✓ Dimensional Constraints
- ✓ Sketch Editing
- ✓ Sketch Relationships
- ✓ Best Practices

Module 3: Parametric Part Modeling

- ✓ Extrude
- ✓ Revolve
- ✓ Sweep
- ✓ Hole Features
- ✓ Patterns
- ✓ Mirror Features
- ✓ Boolean Operations

- ✓ Design Intent

Module 4: Advanced Part Modeling

- ✓ Ribs
- ✓ Draft Features
- ✓ Shell
- ✓ Thread Features
- ✓ Helix
- ✓ Expressions
- ✓ Feature Editing
- ✓ Model Optimization

Module 5: Assembly Design

- ✓ Assembly Creation
- ✓ Component Constraints
- ✓ Assembly Navigation
- ✓ Exploded Views
- ✓ Assembly Validation
- ✓ Interference Detection
- ✓ Assembly Management
- ✓ Large Assembly Techniques

Module 6: Drafting and Documentation

- ✓ Drawing Creation

- ✓ Standard Views
- ✓ Section Views
- ✓ Detail Views
- ✓ Dimensions
- ✓ GD&T Basics
- ✓ Bill of Materials
- ✓ Drawing Templates

Module 7: Surface Modeling

- ✓ Surface Creation
- ✓ Trim Surface
- ✓ Extend Surface
- ✓ Offset Surface
- ✓ Through Curves
- ✓ Studio Surface
- ✓ Surface Analysis
- ✓ Surface Repair

Module 8: Sheet Metal Design

- ✓ Base Flange
- ✓ Contour Flange
- ✓ Bend Features
- ✓ Corner Relief
- ✓ Unbend/Rebend
- ✓ Flat Pattern

- ✓ Manufacturing Preparation
- ✓ Sheet Metal Best Practices

Module 9: Synchronous Technology

- ✓ Direct Editing
- ✓ Feature Recognition
- ✓ Geometry Modification
- ✓ Live Rules
- ✓ Face Editing
- ✓ Rapid Design Changes
- ✓ Imported Model Editing
- ✓ Design Flexibility

Module 10: Simulation Fundamentals

- ✓ Simulation Environment
- ✓ Material Assignment
- ✓ Boundary Conditions
- ✓ Meshing Basics
- ✓ Static Analysis
- ✓ Result Interpretation
- ✓ Design Validation
- ✓ Optimization Basics

Module 11: CAM Fundamentals

- ✓ Manufacturing Environment
- ✓ Machine Setup
- ✓ Tool Libraries
- ✓ Toolpath Generation
- ✓ Milling Operations
- ✓ Drilling Operations
- ✓ Simulation
- ✓ NC Code Introduction

Module 12: Data Exchange and Collaboration

- ✓ CAD Data Import
- ✓ CAD Data Export
- ✓ Neutral File Formats
- ✓ Cloud Collaboration
- ✓ Revision Management
- ✓ Team Collaboration
- ✓ Product Data Sharing
- ✓ Engineering Workflows

Module 13: Product Validation

- ✓ Model Checking
- ✓ Geometry Validation
- ✓ Clearance Analysis

- ✓ Mass Properties
- ✓ Assembly Validation
- ✓ Design Review
- ✓ Engineering Verification
- ✓ Quality Checks

Module 14: Productivity and Automation

- ✓ Templates
- ✓ Reusable Features
- ✓ Expressions
- ✓ Automation Tools
- ✓ Design Reuse
- ✓ Macros Overview
- ✓ Productivity Techniques
- ✓ Workflow Optimization

Module 15: Industry Projects

- ✓ Mechanical Component Design
- ✓ Industrial Product Assembly
- ✓ Sheet Metal Project
- ✓ Surface Design Project
- ✓ Manufacturing Documentation
- ✓ Design Validation
- ✓ Production Preparation
- ✓ Best Practices

Module 16: Capstone Project

- ✓ End-to-End Product Development
- ✓ Assembly Design
- ✓ Technical Drawings
- ✓ CAM Preparation
- ✓ Simulation Review
- ✓ Product Documentation
- ✓ Design Optimization
- ✓ Final Industry Project