



## QUICKSTEP COMPUTER CENTER

National Accreditation Board of Education Training.  
(NABET)- Quality council of India) An ISO 9001:2008

\*\*\*\*\***(Unigraphics - NX)**\*\*\*\*\*

### 1. Overview

- ❖ Intended Audience
- ❖ Course Objectives
- ❖ Prerequisites
- ❖ How to Use This Course
- ❖ Class Standards
- ❖ Part File Naming
- ❖ Seed Parts
- ❖ Colors
- ❖ Definitions of Terms

### 2. Getting Started

- ❖ Starting NX
- ❖ Gateway Application
- ❖ Cue/Status Line
- ❖ Windows File Dialogs
- ❖ Activity — Creating a New Part
- ❖ Opening Multiple Parts
- ❖ Activity — Opening an Existing Part
- ❖ Activity—Save Part As (Copying a Part)
- ❖ Activity—Closing Parts
- ❖ Exiting NX
- ❖ Summary

### 3. The NX User Interface

- ❖ Toolbars
- ❖ Customizing Toolbars
- ❖ Roles
- ❖ Activity — Working with Toolbars
- ❖ Activity — Working with Roles
- ❖ Mouse Navigation
- ❖ Mouse Pop-up Menu
- ❖ Graphics Window View Manipulation
- ❖ Selecting Objects
- ❖ Preview Selection and Quick Pick
- ❖ Activity — Manipulating Views
- ❖ Summary

## 4. Coordinate Systems

- ❖ Overview of Coordinate Systems
- ❖ Manipulating the WCS
- ❖ Move WCS (Dynamics)
- ❖ Origin Handle
- ❖ Axis Handles
- ❖ Rotation Handles
- ❖ Activity — Manipulating the WCS
- ❖ Summary

## 5. Introduction to Solid Modeling

- ❖ Primitives
- ❖ Block
- ❖ Activity — Creating a Block
- ❖ Cylinder
- ❖ Defining Vectors
- ❖ Activity — Creating a Cylinder
- ❖ Summary

## 6. Positional Form Features

- ❖ Creating Form Features
- ❖ Hole
- ❖ Boss
- ❖ Positioning Terminology
- ❖ Positioning Methods
- ❖ Activity—Positioning Holes and Bosses
- ❖ Slot
- ❖ Pocket
- ❖ Pad
- ❖ Additional Positioning Methods
- ❖ Parameter Entry Options
- ❖ Activity — Creating Pockets and Slots
- ❖ Groove
- ❖ Activity — Positioning a Groove
- ❖ Editing the Size and Location of Form Features
- ❖ Edit Positioning
- ❖ Error Messages
- ❖ Editing Features with the Part Navigator
- ❖ Activity—Editing Positional Form Features
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## 7. Expressions

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- ❖ Creating and Editing Expressions
- ❖ Activity — Getting Familiar with Expressions

- ❖ Summary
- ❖ 8. Shell
  - ❖ Shell Feature Overview
  - ❖ Creating a Shell Feature
  - ❖ Activity — Creating a Shell Feature
  - ❖ Activity — Creating a Shell and Removing Multiple Faces
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## **9. Edge Operations**

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- ❖ Edge Blend
- ❖ Activity — Creating Edge Blends
- ❖ Chamfer
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- ❖ Summary

## **10. Model Construction Query**

- ❖ Visually Inspect the Part
- ❖ Layers
- ❖ Layer Categories
- ❖ Moving Objects Between Layers
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- ❖ Information
- ❖ Distance
- ❖ Mass Properties
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- ❖ Summary

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- ❖ Definitions and Descriptions
- ❖ Introduction to Load Options
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- ❖ Load States
- ❖ Load Failure
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- ❖ Node Display
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- ❖ Selecting Components in the Assembly Navigator
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- ❖ Designing in Context
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- ❖ Assemblies Application
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- ❖ Mating Conditions
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- ❖ Align Constraint
- ❖ Angle Constraint
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