

CAM Turning with spectraCAM Turning (I)

Catalogue Number	77-3007-0001
Category	Design
Duration	15 Hours

Activity 1: Getting Started

CAD CAM CNC
The Lathe
spectraCAM Functions
Lathe Operations

Activity 2: Using spectraCAM

spectraCAM Turning Overview
Accessing On-Line Help
Task: Starting spectraCAM
Task: Exploring the spectraCAM Turning Screen
Cursor Appearance
Task: Displaying Optional Toolbars
Task: Making Menu Selections
Task: Keyword Searching for a Help Topic
Task: Exiting spectraCAM

Activity 3: Starting a Project

Beginning the Top Project
Task: Opening a New Session
Task: Setting the Grid Spacing
Task: Setting Up the Stock
Task: Saving the Session
Task: Defining the Tool
Task: Selecting the Post Processor File

Activity 4: Creating the CAD Drawing

Drawing the Top

Task: Opening a Previously Created Session

Task: Defining the First Layer

Task: Drawing the Base

Task: Adding the Second Layer

Task: Drawing the First Arc

Task: Drawing the Top Body Geometry

Task: The Cutoff Layer and Geometry

Activity 5: Geometry Duplication and Rough Tool Path Generation

Creating Tool Paths

Task: Opening a Previously Created Session

Task: Copying a Geometry

Task: Hiding a Geometry

Task: Performing the First Roughing Operation

Task: Creating the Second Roughing Tool Path

Task: Hiding the Tool Paths

Activity 6: Finish Tool Path and NC File Generation

Creating the NC Code

Task: Opening Your Saved Session

Task: Generating a Finish Tool Path

Task: Generating a Parting Tool Path

Task: Generating the NC Code

Task: Verifying the NC File

Activity 7: Advanced Project Setup

Introduction

Task: Setting the Grid Spacing

Task: Specifying the Stock

Task: Selecting the Post Processor File

Task: Defining the Tool

Task: Defining the First Layer

Task: Saving your Session

Activity 8: Creating the Part Drawing

Overview

Task: Loading the Session

Task: Drawing the Geometry

Task: Drawing the Arc

Task: Completing the Geometry

Task: Creating the Layers

Task: Creating the Finish Layer

Task: Creating the Thread Layer

Activity 9: Final Geometry and Tool Paths

Overview

Task: Loading the Session

Task: Creating the Cutoff Layer

Task: Generating the Rough Tool Path

Task: Generating the Finish Tool Path

Deleting Duplicated Geometry

Activity 10: Tool Paths and NC Code

Project Overview

Threading Types

Task: Loading the Session

Task: Generating the Threading Tool Path

Task: Generating the Cutoff Tool Path

Task: Generating NC Code

Task: Verifying the NC File

Task: Reviewing the NC File

Activity 11: Starting the Final Project

- Introduction to a New Project
- Task: Setting the Grid Spacing
- Task: Specifying the Stock
- Task: Selecting the Post Processor File
- Task: Defining a Facing Tool
- Task: Naming and Saving your Session
- Task: Creating the Layers

Activity 12: Creating the Lighter Geometry

- Drawing Arcs
- Task: Loading the Session
- Task: Drawing the First Arc
- Task: Drawing the First Line
- Task: Drawing the Second Arc
- Task: Drawing Linear Geometry
- Task: Drawing Two Arcs and a Line
- Task: Changing Layers and Drawing the Cutoff Geometry

Activity 13: Final Geometry and Tool Paths

- Activity Overview
- Grooving Operations
- Task: Loading the Session
- Task: Creating the Finish Geometry
- Task: Moving and Hiding the Finish Geometry
- Task: Generating the Rough Tool Path
- Task: Generating the Finish Tool Path
- Task: Verifying the Rough and Finish Tool Paths
- Task: Generating the Groove Geometry
- Task: Generating the Groove Tool Path
- Task: Verifying the Rough and Finish Tool Paths

Activity 14: Final Tool Paths and NC Code

Overview

Facing Operations

Task: Loading the Session

Task: Generating the Face Tool Path

Task: Generating the Cutoff Tool Path

Task: Generating NC Code

Task: Verifying the NC File

The Setup Tool Paths Dialog Box

Task: Using the Setup Tool Paths Dialog Box

Activity 15: Conclusion