

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



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