CAM Milling with spectraCAM Milling (I)

Catalogue Number	77-3005-0001
Category	Mechatronics
Duration	15 Hours

Activity 1: Getting Started

Function of CAM Software

Milling Operations

Activity 2: Using spectraCAM

Introducing spectraCAM Milling

Task: Running spectraCAM Milling

Task: Exploring the spectraCAM Main Window

Task: Making Menu Selections

Task: Accessing Help

Task: Keyword Searching of Help Topics

Activity 3: Starting the LMC Project

Your First CAM Milling Project Task: Importing a CAD File

Task: Selecting Units of Measurement

Task: Selecting the Post Processor

Task: Viewing and Docking the Libraries Toolbar

Task: Selecting the Material

Task: Setting the Stock Size

Task: Specifying the Tool

Task: Changing the View to Isometric

Task: Saving the Drawing

Activity 4: Generating Tool Paths - LMC Project

Overview

Task: Opening an Existing spectraCAM Session

Task: Performing a Facing Operation

Task: Hiding or Viewing a Tool Path

Task: Setting up the Pocketing Operation

Activity 5: Contouring and NC File Generation

Contouring

Generating an NC Code File

Task: Hiding Existing Tool Paths

Task: Performing a Contouring Operation

Task: Viewing the Tool Paths

Task: Generating an NC File for the Project

Task: Viewing the NC Code File

Activity 6: Speaker Design Project

Speaker Design Project

Task: Importing the CAD Drawing File

Task: Selecting the Post Processor

Task: Selecting the Material

Task: Setting the Stock Size

Task: Editing the Tool Library

Task: Changing the View to Isometric

Activity 7: First Pocket Operation

Creating Pockets

Task: Open the Speaker Session

Task: Defining the First Pocketing Operation

Task: Defining the Contour Operation

Task: Changing a Tool Path Color

Activity 8: Second Pocket Operation

Ruled Surface Operations

Task: Reopening the Speaker Session

Task: Pocketing the Inner Circle Performing the Ruled Surface Operation

Task: Specify the Primary Geometry

Task: Specify the Secondary Geometry

Task: Setting up and Generating the Ruled Surface

Task: Editing the Tool Paths

Activity 9: Text and Generating Code

Engraving Text

Task: Reopening the Session and Setting the View

Task: Engraving the ITK

Task: Viewing the Tool Paths

Task: Generating the NC Code

Task: Viewing the NC Code

Activity 10: Advanced Operations Setup

Advanced Operations

Task: Importing the DXF File

Task: Selecting the Post Processor File

Task: Selecting the Material Type and Size

Task: Editing the Tool Library

Activity 11: Advanced Operations

Understanding Milling Operations

Task: Contouring the Outer Edge

Task: Hiding the Contour Tool Path

Task: Creating the Pocket

Activity 12: Ruled Surfaces

Ruled Surfaces

Task: Setting the View

Task: Wrapping the Geometry

Task: Selecting the Primary Geometry

Task: Selecting the Secondary Geometry

Task: Specifying the Ruled Surface Parameters

Task: Initiating the Ruled Surface Operation

Activity 13: Swept Surfaces

Swept Surface Operations

Specifying an Automatic Tool Change

Task: Changing the Tool

Task: Selecting the Primary Geometry

Task: Selecting the Secondary Geometry

Task: Entering the Swept Surface Parameters

Task: Initiating a Swept Surface Operation

Task: Creating the Second Swept Surface

Task: Editing the Tool Paths

Activity 14: Final Steps

Surface of Revolution Operations

Task: Selecting the Surface of Revolution Operation

Task: Setting the Surface of Revolution Parameters

Task: Performing the Surface of Revolution Operation

Task: Editing the Tool Paths

Task: Generating the NC Code

Task: Examining the NC Code