

# ESPRIT Mill Training Syllabus (3 Day)

## Lesson 1: ESPRIT Interface

- Understand how to begin programming in ESPRIT
- Know how to setup the workspace in a productive way
- Become familiar with the ESPRIT interface and how to navigate inside of it
- Understand the difference between Workplanes and Work Coordinates
- Help File

## Lesson 2: First Programmed Part Example (Mill toolpaths) Geometry only Example

- Understand how to setup a Program
- Understand the importance of Front to Back Programming
- Understand how to create a program from geometry
- Learn how to create and import tools
- Learn how to create milling features
- Learn how to create milling operations

## Lesson 3: Simulation

- Learn how to create stock in simulation parameters
- Understand how to add a fixture to simulation
- Understand how to add tool holder models to simulation
- Learn how to place tools in the correct location and orientation in the machine
- Learn how to produce code

## Lesson 4: First Programmed Part Example (Mill toolpaths) Solid Model Example

- Understand the basics of programming off a solid model
- Learn how to create milling tools
- Learn how to create milling features
- Understand how to modify features using manual chain

## Lesson 5: Example Part for Students to Program on their own

- Import a solid model and program features workshop
- Assist students as needed
- Program the part from start to finish (instructor)

## Lesson 6: Profit Milling

- Learn how and when to use Profit Milling



#### Lesson 7: Processes and Knowledge Base (Pre-oriented file)

- Learn how to save machining processes
- Learn how to set up the Knowledge Base
- Customizing the Knowledge Base
- Feeds and Speeds

#### Lesson 8: Extra Info (Time Permitting)

- Custom Tools and Holders
- Engraving
- Extra time with example files