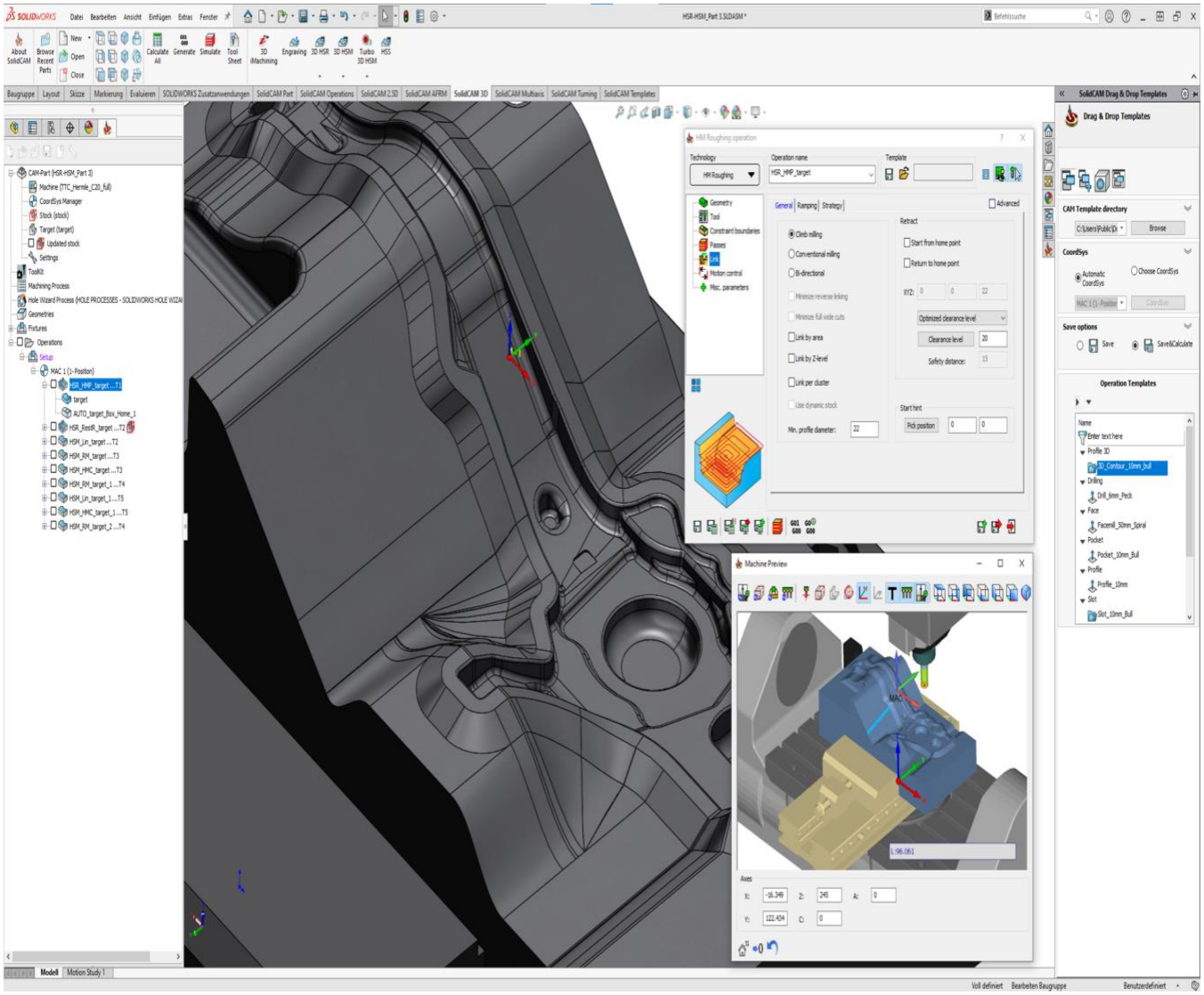

SolidCAM - Module

This module is designed for CNC Programmers who want to take their programming knowledge to next level using SolidCam Software.

This module explores the power of CAM software and provides the candidates with multiple options to machine the profiles (both 2d and 3d). The candidates will learn about 2.5d and 3d milling operations thereby able to generate programs for complex profiles.

SOLIDCAM

With fully licensed software, this module would include inputs on:

2.5D Milling:

1. CAM-Part Definition
   - Machine
   - Coordinate System
   - Stock
   - Target
2. 2.5D Operations
   - Face, Profile, Pocket, Drilling, Multi-Depth Drilling, Thread Milling, Slot, T-slot
   - Toolbox cycles
3. Automatic Feature Recognition
   - Drill Recognition
   - Pocket Recognition
   - Edge Deburring Recognition
   - Hole Wizard Process

3D Mill High Speed Machining:

1. Engraving
2. High Speed Roughing (HSR)
   - HM Roughing
   - Contour Roughing
   - Hatch Roughing
   - Hybrid Rib Roughing
   - Rest Roughing

3. High Speed Machining (HSM)
   - Constant Z
   - Hybrid Constant Z
   - Helical Machining
   - Horizontal machining
   - Linear machining
   - Spiral Machining
   - Morphed Machining
   - Rest Machining

LEARNING OUTCOMES:

After completing this module, the candidate will :

Be able to define the CAM part - Coordinate system, Stock and Target correctly

Correctly identify and perform different operations for 2.5D machining.

Correctly identify and use 3D High speed machining features.

Be able to correctly use technology such as geometry, tool, levels, technology, and links.

Be able to simulate, verify the path, and export the NC program