

# ADVANCED CNC MILLING MULTI-AXIS CONVERSATIONAL HEIDENHAIN



## COURSE OVERVIEW

This course is designed to provide participant with advanced level of operating and programming on CNC 4 & 5 Axis Simultaneous Milling machine. Ability in manipulating allowable Q-Parameters for specific function in programming such as angle calculation for machine kinematic compensation of compound angle machining is potentially cost saving over expensive CAM environment investment in Multi-Axis Machining Technology. Focus on establishment of robust Parametric programming strategy of tilt work plane via Plane Function and Touch Probe application with intention to optimized machine function capability at its fullest working capacity as CNC 4 & 5 Axis Simultaneous Milling machine.

## COURSE OBJECTIVES

At the completion of this course, participants will be able to :

- Perform Parametric Programming using Q-Parameter as program variable in compound angle programming.
- Setting-up different approach of quality inspection strategy using Touch Probe.
- Perform basic Machine Kinematic Calibration using 3D Quickset.

## THE UNIQUENESS OF THIS COURSE

- Practical training on simulation and actual cutting at CNC 4 & 5 Axis Simultaneous Milling Machine.
- Experienced and Certified trainers.

## WHO SHOULD ATTEND

This course is designed to those who are related to the manufacturing and tooling design industry.

Target Group: Tooling Designer, Production engineers, Tooling engineers, Mould maker, CNC's technicians and technical trainers.

## KEY TOPICS

- Q-Parameter for Angle Calculation
- Compound Angle Programming
- Compound Angle Machining
- Multi-Axis Touch Probe Application
- Machine Kinematic Calibration

## METHODOLOGY

Consist of practical activity with Heidenhain software and CNC Multi-Axis machine, lessons delivery is via demonstration, practical and discussions.

## COURSE DURATION

3 Days.

## PRE-REQUISITE

Participants should have basic and intermediate level in CNC Multi-Axis machining and programming.

## CERTIFICATION

Certificate of attendance will be issued to those who fulfill 80% of attendance.

Minimum Participant: 6

## For further details, please contact:

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