

**COURSE NAME : NX Multi-Axis Techniques (NXMAT)**  
**DURATION : 3 x 8hrs session**

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## **OBJECTIVES**

The **NX Multi-Axis Techniques** course accelerates the user in the principles of simple to complex 3, 4 and 5 -axis positioning and contouring machining operations of the fixed axis, variable axis and sequential milling processors. In addition, explanations and examples using the various methods of tool axis control are presented. The student will fully comprehend the best method of use with specialized fixturing and machine tool configurations

## **WHO SHOULD ATTEND**

This course is intended for all NX users including:

- Manufacturing engineers
- Process planners
- Multi-axis NC/CNC programmers
- Users of 3, 4 and 5-axis machines for milling complex prismatic and contour type parts are encouraged to attend

## **PRE-REQUISITES**

- The student should have attended the “Essentials for NX Designers (NXED)” and “NX Manufacturing Essentials (NXMF)” courses
- Knowledge of manual NC/CNC programming methods and machinery
- A thorough understanding of NC/CNC programming principles and of manual 3-, 4- and 5-axis NC/CNC programming methods and procedures

## **COURSE SYLLABUS**

- Overview
- Advanced cavity milling
- Z level machining
- Use of the NC assistant
- High speed machining concepts
- Mill area geometry applications
- Wave geometry linker
- Fixed contour applications