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Course Name : <u>NX Manufacturing Fundamentals</u>

Course Duration : 24 Hrs.

Course Overview

Course Description

 This course teaches the use of the NX Manufacturing application for creating 2–1/2 and 3–axis tool paths.

• Intended Audience

 This course is designed for manufacturing engineers, process planners and NC/CNC Programmers that have the basic knowledge of NC/CNC manual programming of 3-axis positioning and contouring equipment.

Prerequisites

- <u>Education</u>: Diploma completed or Degree 2nd year completed in any one of following Streams.
 - Aeronautical, Automobile, Industrial, Marine, Mechanical, Mechatronics, Metallurgy, Production and Manufacturing Engineering.

Software:

 This is a basic NX manufacturing class that requires you to have basic computer knowledge and experience as an NC/CNC programmer.

Course Objective

- After successfully completing this course, you should be able to perform the following activities in NX:
 - Create manufacturing assemblies
 - Understand the master model concept
 - Create parent group objects that supply information to operations
 - Utilize options and parameters that are common to various operation types
 - Create drilling, milling, and subsequent tool paths

Course Contents

- Basic Manufacturing Concepts
- Analyzing a manufacturing part
- o Tools
- Operation Navigator
- Parent groups
- Cavity milling
- Machining with T-Cutters
- Coordinate systems
- Visualization (ISV)
- Planar milling



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- o Floor and wall milling
- o Manual drilling
- Fixed axis contouring
- Engraving text
- o Tool path information output

