Website: www.positivequadrant.in
Email: positivequadrants@gmail.com
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COMPUTER NUMERICAL CONTROL PROGRAMMING

Programming & development

Course Curriculum

Basic – 16 Hours

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COMPUTER NUMERICAL CONTROL PROGRAMMING

Module 1 : Introduction to CNC Programming

Introduction to CNC Programming

Basic principles of CNC operation

Module 2 : Installing the CNC Software

Environmental Setup of CNC

Module 3 : Introduction to CNC Technology

Explore the historical context and evolution of CNC Technology

Understand the fundamental principles behind CNC machining and its significance in modern manufacturing

Identify key applications and industries where CNC machining is commonly used

Module 4 : Coordinate systems

Understand the importance of machine and workpiece coordinates

Cartesian coordinate system and its application in CNC programming

Module 5 : CNC Machine Components

Study the major components of CNC machines

Controller

Motors

Tooling System

Function and operation of CNC machine parts

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Module 6 : G-code Basics

Introduction to G-code

CNC program structure and syntax

Simple CNC programs