

Course Name: *Plant Simulation - Intermediate Course*

Course Duration: 40 Hrs.

## Description

In this Process Designer Basics course, students will delve into the Tecnomatix Plant simulation, focusing on its capability to directly access nodes from the product, operation, and resource trees.

## Basics Prerequisites

Previous experience with a 3D CAD system is recommended and NX cad requirement.

## Contents

- Introduction of manufacturing industry
- Requirements for machine fabrication shop
- Assembly line Requirements
- Layout of factory
- Process chart in manufacturing
- Control chart in manufacturing
- The cycle time of manufacturing
- Bottleneck in manufacturing
- basic simulation modelling
- How to manufacturing bobcat
- building a model: general practitioner
- building a model: tracking patients and performance
- building a model: experimenting
- demonstration of more advanced concepts
- advanced simulation modelling
- building a model: car manufacturer
- building a model: lines and workers
- building a model: simulation optimization