



Empowering Innovation

# NX CAD Fundamental Processes Syllabus

## General Information

### Description

Fundamental Processes course covers the essential NX task-based processes that new users will utilize when creating and editing parametric parts. The real-world experience of our instructors aids students in transferring knowledge gained through this single course to their job resulting in faster time to productivity.

### Expectations and Goals

- ❖ Open and examine NX models
- ❖ Create and edit parametric part models
- ❖ Create and modify basic assembly structures
- ❖ Modify imported model data
- ❖ Create and modify basic drawings

### Intended Audience

This course is for Engineers, designers, detailers, checkers, and managers who need to manage and use NX.

### Prerequisite

None

## Course Schedule

Day	Description
Monday	Overview of Active Workspace with NX; Sketching and extruding simple shapes
	Creating and constraining sketch profiles; Revolving cylindrical parts
Tuesday	Adding basic design and detail features to parts; Analyzing the history and properties of a model
	Opening and analyzing an assembly structure; Controlling design intent and using equations
Wednesday	Editing and revising a part; Creating parts defined by a wall thickness
	Modeling molded and cast parts
Thursday	Sweeping geometry to define parts; Building parts with duplicate geometry
	Using Synchronous Modeling to modify imported model data
Friday	Building and constraining assembly structures
	Creating basic part drawings

## End Result

At the completion of the Fundamental Processes class, the student will be able to develop parametric solid and assembly models as well as drawings using the master model concept. These concepts can be applied in the real world of product development and collaboration. As with each course developed and taught by CAM Logic professionals, this class reinforces our in-depth knowledge of the software's capabilities and instructs the students based on the underlying principles incorporated within the NX product suite.

## *The CAM Logic Training Difference*

**Expertise;** our certified trainers are all industry experts working on real-world challenges & projects

**Knowledge;** as specialized experts with Siemens PLM Software NX™, we possess this expertise to help you gain maximum knowledge and retention

**Flexibility;** we can modify content, timing, and location to meet your specific needs, industry challenges, and compliance requirements

