



Empowering Innovation

NX CAD Advanced Processes Syllabus

General Information

Description

The Advanced Processes course builds on the tools deployed as a result of attending the NX CAD Fundamental Workflows course. 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

- ❖ Apply advanced sketch constraints to capture design intent
- ❖ Use basic surfacing techniques to build parts
- ❖ Develop models to support manufacturing processes
- ❖ Translate and modify non-parametric model data
- ❖ Use top-down assembly modeling techniques to establish interpart relationships
- ❖ Build assembly configurations using arrangements

Intended Audience

This course is for designers, engineers, and CAD/CAM managers who need to create parametric solid models that capture design intent.

Prerequisite

CAD Fundamental Processes course or successful completion of Designing parts in NX Advisor on Learning Advantage (score >70%).

Course Schedule

Day	Description
Monday	Modeling basic parts using surfacing techniques; Controlling design intent using conditional formulas Adding advanced features to molded and cast parts
Tuesday	Starting a model using imported CAD data; Building parts with duplicate geometry Displaying and analyzing assembly structures
Wednesday	Modeling parts in the context of an assembly; Linking geometry between related component parts Creating expression links between parts
Thursday	Preparing models for down-stream manufacturing processes; Duplicating components using patterns Working with and defining reusable part data
Friday	Cloning assembly structures; Editing and revising assembly structures Configuring an assembly using arrangements

End Result

At the completion of the Advanced Processes class, the student will be able to develop complex parametric solid and assembly models. This task-based process course focuses the student on productive modeling techniques that capture design intent in the context of the Master Model. 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

