

**NX CAD**  
**Synchronous Modeling and Parametric Design**

course code TR10043  
user level Intermediate to Advanced  
duration 3 days

The **Synchronous Modeling and Parametric Design** course is designed to sustain the momentum launched in earlier NX courses. As a second tier course, Synchronous Modeling and Parametric Design (SMP) aims to capitalize on the designers heightened skill level and propel his or her job productivity to the next level. This course includes key productivity skills that delve deeper into the advanced and associative modeling concepts.

WHO SHOULD ATTEND	PRIMARY COURSE TOPICS
<ul style="list-style-type: none"> <li>Engineers</li> <li>Designers</li> <li>CAD/CAM Managers</li> </ul>	<ul style="list-style-type: none"> <li>Documenting design intent (Layers, Feature sets, Product Interfaces)</li> <li>Editing parametric models (Replace features, Suppression, model updates)</li> <li>Associative curve operations (Project, Join, Intersect, Wrap/Unwrap, Text)</li> <li>General pockets and pads (General, Emboss, Offset)</li> <li>Blending techniques (Overflow, Edge options, Face blends and options)</li> <li>Design optimization (Optimization study, options, algorithms)</li> <li>Synchronous modeling (History and History Free Mode)</li> <li>Design intent and model construction</li> </ul>
PREREQUISITES	
Required courses: <ul style="list-style-type: none"> <li>Essentials for NX Designers (TR10051)</li> </ul> Other recommendations: <ul style="list-style-type: none"> <li>Student needs to have these concepts: Design in NX and Sketcher</li> <li>And have working knowledge of assemblies</li> </ul>	
PROVIDED COURSE MATERIALS	
<ul style="list-style-type: none"> <li>Student Guide</li> <li>Activity Material</li> </ul>	