

**NX CAD**  
**Intermediate NX Design and Assemblies**

course code    TR10056  
user level        Intermediate  
duration          5 days

**Intermediate NX Design and Assemblies** is designed to advance students further up the productivity curve. As a second tier course Intermediate NX Design and Assemblies builds on the tools you deployed as a result of attending the Essentials for NX Designers course. This method-based course focuses the student on productive modeling techniques that capture design intent in the context of the Master Model. Delivering on that outcome, this course will incorporate sketching, inter-part modeling, design intent, and several assembly topics as a significant part of the instruction.

WHO SHOULD ATTEND	PRIMARY COURSE TOPICS
<p>This course is for designers, engineers, and CAD/CAM managers who need to create parametric solid models that capture design intent.</p>	<ul style="list-style-type: none"> <li>Pattern sketch curves</li> <li>Offset sketch curves</li> <li>Create a basic free form shape</li> <li>Create expressions with measurements</li> <li>Copy/paste a feature</li> <li>Create reference sets</li> <li>Create draft</li> <li>Use Synchronous Modeling</li> <li>Create a variable blend</li> <li>Create component patterns</li> <li>Apply top down assembly modeling</li> <li>Design “in context”</li> <li>Use the WAVE geometry linker</li> <li>Create interpart references</li> <li>Define remembered assembly constraints</li> <li>Define a revision identifier</li> <li>Understand component replacement methods</li> <li>Manage assembly arrangements</li> </ul>
PREREQUISITES	
<p>Required courses:</p> <ul style="list-style-type: none"> <li>Essentials for NX Designers (TR10051)</li> </ul> <p>Basic understanding of parametric modeling, and the Master Model Concept.</p> <p>Working knowledge of the following:</p> <ul style="list-style-type: none"> <li>NX interface</li> <li>Creating, opening, and saving parts in a Teamcenter Integration environment.</li> <li>Part file saving conventions</li> <li>Sketching and constraining techniques</li> <li>Adding and constraining assembly components</li> <li>Swept features with optional Offset</li> <li>WCS &amp; Absolute coordinate systems</li> <li>Layer control</li> <li>Simple blends</li> </ul>	
PROVIDED COURSE MATERIALS	
<ul style="list-style-type: none"> <li>Student Guide</li> <li>Activity Material</li> </ul>	