

# Solid Edge Synchronous Design

## Overview

For a better understanding of Solid Edge Synchronous Technology, we will look at design methods that employ a hybrid approach of Ordered and pre-Synchronous Technology tools. With this design method understood, we will then move into ST design work flow for Part, Sheet Metal, and Assembly environments.

## Course Outline

### Part Design

- Traditional (Ordered) design workflow
  - Pre-Synchronous Technology design tools and features
  - Creating hybrid models: history-based (Ordered) and pre-Synchronous Technology
  - Working with hybrid models
- Synchronous design workflow
  - Using the Steering Wheel: easily modify existing geometry
  - What is direct edit and what are the advantages?
  - Design intent: rules, tools, and assumptions
  - Making assumptions: users and Solid Edge
  - Changing the design: the power of Synchronous Design

### Sheet Metal

- Fundamental review of core features
- Advanced features and workflow
- Drafting sheet creation and interactive workflow (design, flat, draft)
- Design with Ordered and Synchronous Technology tools
- Synchronous design change workflow

### Assembly

- Learn the interface
- Building the foundation: relationships and geometry
- Editing assembly relationships
- Component design changes: Ordered and Synchronous
- Tools for managing the growing assembly
- Assemblies with Synchronous Components: in-context process for designing and editing