



Empowering Innovation

Solid Edge Sheet Metal

Overview

Solid Edge Sheet Metal will provide a user of any proficiency the skill set to use Solid Edge as their primary tool for sheet fabrication design. This course will build on Part, Assembly, and Draft workflows.

Course Outline

Part Design

- Fabrication: working with sheet stock versus machine part design
- Features: tabs, flanges and contour flanges - efficient modeling in action with sheet-centric commands
- Optimized design approach: all design with result in a flat pattern
- Flat Patterns: create, revise, predict nesting, draft output
- Treatments: cutouts, dimples, louvres, etc.
- Feature Libraries: grouping features to optimize the design

Assembly

- Assembly Methods and Relationships: interface, methods (bottom-up/top-down), applying relationships
- Additional Relationships: relationships and Rapid Part Placement, using reference planes and patterns
- Editing Assemblies: checking tools, interference checks, dynamic movement, editing relationships and models, controlling updates, move and replace parts
- Designing in the Assembly: bottom-up method, top-down method, both methods combined
- Part-to-part Associativity: linking and management
- Explode-Render-Animate

Draft

Using the tools and viewing options as they pertain to parts and assemblies. Use of Draft sheets is ongoing throughout the class labs. All aspects of Draft are open for questions, but labs are focused on newer tools in the Draft environment.

- 2D to 3D design work flow
- View types: tools for faster display and response on large assemblies
- 3D sections: view styles and shortcuts
- Viewing tools: modify the look and content of views without leaving the draft file