Course: What's New in SE2020

Duration: 1 day

Version: SE 2020

At Course Completion

Students will have learned what new enhancements have been added in SE2020, and how they are used.

Prerequisites

Here are the standard pre-requisites for the training course. Potential students should have or completed the following prior to the class:

- **Completed the Solid Edge Fundamentals class**
- Understanding of Synchronous Technology is recommended but not absolutely necessary.
- Have at least 6-month modeling experience with Solid Edge.
- Mechanical Design Experience
- Windows Experience

Students who lack any of these prerequisites should realize the impact it will have on their learning experience.

Course Content

Course consists of;

- 4 Video Lectures (PowerPoint's to support the Instructor's lecture).
- 17 Instructor lead video demonstrations.
- 15 practical activities to reinforce the lessons.
- Solution videos for each activity.

Topics:

Day 1
   Part 1: General, Sketch and Sheet Metal Enhancements
   - **General Info:**
     - QAT (Quick Access Toolbar)
     - Enable dialog resizing and updates to dialog layouts
     - Solid Edge UI Performance Improvements

- **Sketch Environment:**
  - Auto-Scale sketch
  - Rectangular pattern in sketch/profile (ordered)
  - Circular Pattern in sketch profile (ordered)
- **Sheet Metal Environment:**
  - Lofted Flange
    - Triangular Control Options
    - Real Bends
    - Vertex Mapping
    - Bend Table Entries
  - Bend Bulge Relief

Part 2: Part and Next Generation Enhancements
- **Part Environment:**
  - Maintain cross section shape and size option
  - Multi-face selection for PMI annotations
  - Support Solid to Solid intersection in Intersect command
  - Invert region selection between removed and kept
  - Compare Models
- **Next Generation:**
  - Remesh for mesh bodies
  - Align Mesh Bodies to Coordinate System
  - Section Sketches
  - Repair Mesh

Part 3: Assembly and Draft Enhancements
- **Assembly Environment:**
  - Reference Instance Selection in Sync & Fast Pattern
  - Find Components
  - Assembly Performance Mode
  - Count number of bodies
  - Prevent accidental placement of components from Assembly Pathfinder
  - Assembly Performance Improvements
  - Relationship repair for frame and pipe commands
  - Section by Plane
- **Draft Environment:**
  - 2D geometry Display Performance
  - Show Hole Table Origin

Part 4: Miscellaneous Enhancements
- Standard Parts Enhancements
- Import and export of PMI through STEP AP242
- Inventor Data Migration Tool
- Creo Elements-Direct Data Migration
- Removal of DCOM from Pro-E and Inventor Migrators
- Support Import/Export of OBJ file format
- Lite part data support for PMIs in translator workflows

Note: The number of lessons covered on any given day could vary due to the progress of the student.