



Advanced SolidWorks® 2018

80 Hours

SolidWorks® has become a worldwide industry leader in affordable 3-D feature based parametric solid modeling software for mechanical design and engineering. SolidWorks® utilizes an intuitive windows user interface, one of the best in the industry, and is based on the powerful Parasolid® kernel. Users of Pro-E®, Unigraphics®, CATIA®, and other high-end CAD software are discovering the portability, shorter learning curve, and expanded power and capability of SolidWorks®.

This training program is tailored for experienced manufacturing, design, and engineering professionals who need to develop skill and speed in applying feature based parametric modeling principles and techniques to create complex 3-D solid models and prepare fully dimensioned engineering drawings using SolidWorks®. This is a 4-hour class that meets one evening, per week, for 12 weeks. Our computer lab is state-of-the-art with multi-core processor computers that have been properly equipped for feature based solid modeling CAD work.

Students will also learn how to apply separate modules in sheet metal design, weldments, and surfacing/plastic molds for potential 3D Printing prototypes, and/or injection molding. This class will also cover methodology in design assemblies and how to utilize third party modeled off-the-shelf components, combined with tables, charts, and the Machinery's Handbook to facilitate rapid prototyping and accuracy in design.

Training topics to include:

- Multi-body Solids
- Sheet Metal Design
- Weldment Design
- Advanced Tools in Assembly
- Design for Manufacture (DFM)
- Understanding Top-Down Design
- Solid-Surface Hybrid Modeling
- Surface Modeling
- Master Model Techniques
- Creating Engineered Drawings for Sheet Metal Assemblies and Weldments

Prerequisites:

- Completion of Beginning SolidWorks, or
- 12 Months of SolidWorks and print reading daily usage

ETI instructor Paul Montgomery is a Certified Professional with SolidWorks Mechanical Design. He runs his own design consultant engineering and prototype manufacturing company, *P&M Engineering*.

Paul is also a certified, apprentice-trained toolmaker, prototype machinist, and CNC Programmer with nearly 40 years of experience in the industry. His many years of experience, from manufacturing to design engineering, exposes students to practical design competency, utilizing many aspects of top-down design in tooling.

Employment Training Panel (ETP) State Funded Training*: \$350.00 per eligible employee

Non-ETP COST: \$2,430.00

WHEN:

Thursdays
5:00 pm to 9:00 pm
February 21, 2019 – July 11, 2019

WHERE:

College of the Canyons
Room TBA
26455 Rockwell Canyon Road
Valencia, CA

For more information or to register, please contact Jocey Hogan at 661.362.5657 or jocey.hogan@canyons.edu and visit our website at [ETI Class Schedule](#)

*For employees of eligible employers. Employees are not considered registered until all paperwork is received, a \$350 participant fee, per trainee, has been paid to the Santa Clarita Community College District and the Employment Training Panel has determined eligibility. State subsidy is contingent upon the trainee completing all the Employment Training panel requirements. Please contact the Employee Training Institute, 661.362.5657, for details on eligibility requirements.