

Beginning SolidWorks® 2015

72 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 draftspersons and others 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 72-hour course that meets weekly in four-hour sessions, over 18 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.

The Feature-based Parametric Modeling Environment

- Setting up the design options and configuration
- Customizing SolidWorks® for your application
- Principles of feature based modeling
- Strategy for planning your model for design intent
- Sketching and parametric dimensioning techniques
- Model building using 3-D projection techniques

Beginner Solid Modeling Techniques

- Application of applied feature
- Using guide paths and pierce relations for complex lofts and sweeps
- Editing and modifying solid models.
- Creating hole features
- Editing solid features
- Application Project

Creating Assemblies

- Bringing parts into an assembly
- Using assembly mating relations
- Testing mating relations
- Exploding and collapsing the assembly
- Application Project

Creating Engineering Drawings and Detailing

- Using drawing templates and sheet formats
- Creating standard views from the solid model
- Adding detail auxiliary views
- Dimensioning and adding notes
- Inserting a Bill of Material (BOM)
- Geometric tolerancing
- Application Project

ETI instructor **Gene Zamba** is on the Board of Directors and Founder of Cal Biomedical Research, LLC, specializing in orthopedic Implants, clinical diagnostics, and patient monitoring devices. He has been working in the Biomedical Engineering profession for over 40 years and has developed and received FDA approval for over 300 medical devices that are used in the operating room today. He teaches Biomedical Engineering and Regulatory FDA compliance technologies to businesses around the world. Gene holds a Professional Engineering License and Master's Degree in Engineering from the University of South Florida.

Employment Training Panel (ETP) State Funded Training*: \$250.00 per eligible employee

Non-ETP COST: \$2,122.00

WHEN:
Saturdays

8:00 am to 12:00 pm
Nov. 7 through April 2, 2016
(No class 11/28, 12/26, 1/2, 2/13)

WHERE:

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

For more information or to register, please contact Sherie Arnold at 661.362.5657 or sherie.arnold@canyons.edu

*For employees of eligible employers. Employees are not considered registered until all paperwork is received, a \$250 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.