



Fundamentals of 3D Printing 30 Hours

As 3D Printing has gone mainstream, its usage has grown exponentially. It will continue to grow in the near future with the advancements in process technology and material science.

COURSE OBJECTIVE: This hands-on class will prepare designers and engineers for the increasing utilization of 3D Printing or Additive Manufacturing in product development. The course will add to designers' and engineers' skillset by increasing the knowledge needed to maximize the use of 3D Printing. Participants will learn about the development of 3-D technology, how to use the different technologies and most importantly how to design for 3D Printing. The participants in the class will practice the steps involved in designing parts and will be able to print parts themselves. Once the course is completed, participants will understand how 3D Printing enhances the product development process and will learn that part design is only limited by their imagination.

PREREQUISITE: Working knowledge of 3D Modeling programs like SolidWorks.

WHO SHOULD ATTEND: Designers, Engineers, DIY and anyone who wants to learn how to take designs they created in a Solid Modeling programs and print them into parts.

TOPICS COVERED:

- General Overview of Manufacturing Processes
- Historical Overview of 3D Printing
- 3D Printing Basic Concepts – The Theory of Layer Technology
- A Comparison of 3D Printing to Conventional Manufacturing Technologies
- Overview of Current 3D Printing Technologies
- Materials Used in 3D Printing
- Post Processing 3D Printed Parts
- Production versus Prototyping 3D Printed Parts
- The Future of 3D Printing

ETI instructor Scott Lubell is a Product/Project Manager and Mechanical Design Engineer with experience in a long list of industries from Aerospace to Consumer Electronics. He has worked on projects at every level of the Product Development Lifecycle from conceptualization to manufacturing and marketing. For the past 10 plus years, he has been working in the Additive Manufacturing industry as a Project Engineer and Product Manager. Scott has taught engineering classes such as SolidWorks and AutoCad at College of the Canyons and through the ETI programs. Scott has a Masters of Business Administration in Marketing and a Bachelors in Industrial Design / Engineering from California State University, Northridge.

Employment Training Panel (ETP) State Funded Training* : \$350 per eligible employee
Non-ETP COST: \$ 1,130.00

WHEN:
Wednesdays
6:00 pm to 9:00 pm
April 18, 2018 through June 20, 2018

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.