



Fundamentals of 3D Printing 30 Hours

COURSE OBJECTIVE: This course will give students an overview of the entire manufacturing landscape and illustrate how 3D Printing (Additive Manufacturing) plays an important role in the evolution of manufacturing technologies. The class will use historical events to show how various manufacturing technologies aided in the development of the 3D Printing industry. Students will learn about the parameters in designing parts for 3D Printing. In addition, students will understand which 3D Printing technology is appropriate for a particular end use part design and application. Drawing from their past solid modeling experiences from programs such as SolidWorks, students will use their newly acquired skills related to part parameters to draw and “print” parts in an available technology.

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

WHO SHOULD ATTEND: Designers, engineers and others that meet the prerequisite who are interested in expanding their knowledge of 3D Printing.

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
March 28, 2018 through May 30, 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.