

# Learning AutoCAD 3D



Duration | 3 Days

AIA HRS | 24 HRS

## Training Facilities

Virginia Beach, VA  
Richmond, VA  
Roanoke, VA

### Description:

Using hands-on exercises representing real-world, industry-specific design scenarios, users explore the fundamental concepts and workflows for creating 3D models using AutoCAD® 2010. Users learn about 3D conceptualization using solid, surface, and mesh models, and the recommended practices for evolving those into composite models. The tools and concepts of free-form organic modeling are covered. This guide also teaches users how to present their designs while they are still being created, using visualization tools such as visual styles, model walk and fly-throughs, materials, and lighting. Users also learn how to output 3D models from AutoCAD 2010 to either paper or a distributable, electronic version.

### Prerequisites:

Students must have a basic understanding of Microsoft Windows, file navigation and a fundamental understanding of drafting concepts.

**Learning Units/Hours:** 24 Hours

### Objectives:

To teach users the fundamental concepts and workflows for creating 3D models using AutoCAD 2010. After Completing this class, users will be able to:

- Create a rough design using solid primitives, solid or surface models from cross-sectional geometry, or composite
- models from multiple solid models.
- Complete a solid model design by adding the necessary features to detail, duplicate, and position 3D models.
- Create free-form, organically shaped mesh models using sub-d mesh modeling tools, and convert them to solids
- or surfaces for additional modeling operations.
- Convert 2D objects to 3D objects.
- Document a 3D design by creating 2D drawings for production and visualization.
- Communicate design ideas using visual styles, lights, model walk-through tools, and renderings.

### Course Outline:

#### 3D Modeling

- Introduction to 3D Modeling
- Creating Solid Primitives
- Creating Models from 2D Profiles
- Creating Composite Solids
- Working in 3D

## Inlet Technology

192 Ballard Court  
Suite 306  
Virginia Beach, VA  
23462

Ph: 757.496.2323  
Fax: 757.496.2424



**Autodesk®**  
Authorized Training Center

Visit [www.InletTechnology.com](http://www.InletTechnology.com) for a complete class schedule and list of other services or call our Training Department at 757.496.2323

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ATC®  
Passport  
Provider



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## Free-form 3D Modeling

- Introduction to Free-Form Design
- Basic Mesh Modeling

## Creating Models from Cross Sections

- Converting 2D Objects to Solids or Surfaces
- Creating Composite Models

## Editing Models

- Adding Detail to Your Solid Models
- Converting Objects
- Editing Solid Models
- Extracting Geometry from Solid Models
- Changing the Model Position
- Duplicating the Model
- Getting Information from 3D Objects

## Sectioning a Model and Creating Drawings

- Sectioning a Solid Model and Generating 2D Geometry
- Creating Drawings from 3D Models

## Visualization

- Using Visual Styles
- Using Lights
- Using Materials
- Using the Sun
- Rendering
- Navigating the Model
- Using Cameras and Views

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# Inlet Training Class Registration Form



## Customer Information

Company \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_  
Primary Contact \_\_\_\_\_  
Telephone \_\_\_\_\_ eMail \_\_\_\_\_

## Training Class Information

Class Name \_\_\_\_\_  
Class Start Date \_\_\_\_\_ Duration (# of days) \_\_\_\_\_  
Student 1 \_\_\_\_\_ eMail \_\_\_\_\_  
Student 2 \_\_\_\_\_ eMail \_\_\_\_\_  
Student 3 \_\_\_\_\_ eMail \_\_\_\_\_  
Student 4 \_\_\_\_\_ eMail \_\_\_\_\_  
Student 5 \_\_\_\_\_ eMail \_\_\_\_\_  
Student 6 \_\_\_\_\_ eMail \_\_\_\_\_  
Student 7 \_\_\_\_\_ eMail \_\_\_\_\_  
Student 8 \_\_\_\_\_ eMail \_\_\_\_\_  
Student 9 \_\_\_\_\_ eMail \_\_\_\_\_  
Student 10 \_\_\_\_\_ eMail \_\_\_\_\_

## Payment Information

### CREDIT CARD

Type (Circle One) \_\_\_\_\_ Visa \_\_\_\_\_ Mastercard \_\_\_\_\_ American Express \_\_\_\_\_  
Credit Card Number \_\_\_\_\_  
Expiration Date \_\_\_\_\_ 3-4 digit Verification Code \_\_\_\_\_  
Name on Card \_\_\_\_\_ Amount to be Charged \$ \_\_\_\_\_  
Billing Address \_\_\_\_\_

### CHECK

Check Number \_\_\_\_\_ Amount \$ \_\_\_\_\_

### PURCHASE ORDER

PO Number \_\_\_\_\_ Amount \$ \_\_\_\_\_  
Purchasing Contact \_\_\_\_\_ Telephone \_\_\_\_\_  
e-Mail \_\_\_\_\_

**NOTE: Please fax copy of PO with Registration Form**



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