



## AUTOCAD 3D



[www.gteceducation.com.sg](http://www.gteceducation.com.sg)

### Course Overview

This course incorporates the features, commands, and techniques necessary to create, edit, and plot a 3D technical drawing in AutoCAD.

<b>Entry Requirement</b>	: Knowledge in AutoCAD 2D
<b>Course Duration</b>	:20hrs.
<b>Mode of Training</b>	: Face to face Instructor led Training
<b>Materials</b>	: Course books will be provided to each participant

### Course Content

#### Module 1: Introduction to 3D

- Types of 3D Models
- Orbiting Your 3D Model
- Setting Viewport Display

#### Module 2: Creating Solid Primitives

- About Solid Primitive
- Creating a Solid Box
- Creating a Solid Sphere
- Creating a Solid Cylinder
- Creating a Solid Cone
- Creating a Solid Wedge
- Creating a Solid Torus
- Creating a Solid Pyramid

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### **Module 3: Creating Models from 2D Profiles**

- About Models from 2D Profiles
- About the Right-Hand Rule of Rotation
- Choosing a Model Creation Method
- Planar Surface Command
- Creating a Model Using the Polysolid Command
- Extrude Command
- Presspull Command
- Revolve Command
- Creating a Helical Path
- Sweep Command
- Loft Command

### **Module 4: Editing AutoCAD Objects**

- Selecting Objects
- Properties Palette
- Editing with the modify panel tools
- Selecting Objects, Erasing Objects
- Joining Objects, Moving and Copying
- Scaling Stretching, and Rotating
- Breaking an Object into Two
- Editing Xrefs and Blocks
- Editing Polylines

### **Module 5: Creating Composite Solids**

- About Composite Solids
- Creating Solids Using Union
- Creating Solids Using Subtract
- Creating Solids Using Intersect
- Checking Interference

### **Module 6: Working in 3D**

- About the Cartesian Coordinate System
- Changing the Coordinate System
- Changing the UCS Icon Display
- Acquiring Points in 3D Space

### **Module 7: Adding Detail to Your Solid Models**

- Filleting Solid Models
- Chamfering Solid Models
- Slicing a Solid Model

### **Module 8:Editing Solid Models**

- Extruding Faces
- Moving Faces
- Offsetting Faces
- Deleting Faces
- Rotating Faces
- Tapering Faces

### **Module 9:Gathering Information**

- Measuring Areas
- Finding the Coordinate of a Point
- Measuring Distances, Measuring Angles
- Getting the General Status of the Drawing
- Finding the Time Spent on a Drawing
- Finding Text in a Drawing

### **Module 10:Extracting Geometry from Solid Models**

- Overview
- Copying Faces
- Copying Edges`
- Exploding 3D Models

### **Module 11:Changing the Model Position**

- Overview
- Moving in 3D
- Aligning in 3D
- Rotating in 3D

### **Module 12:Changing the Model Position**

- Overview
- Mirroring in 3D
- Arraying in 3D

### **Module 13:Getting Information from 3D Objects**

- Overview
- Checking Solid Model Integrity
- Viewing Mass Properties
- Changing Face Color
- Changing Edge Color

### **Module 14:Section a Solid Model and Generate 2D Geometry**

- Displaying 2D Geometry from a Model View
- Manipulating Section Planes
- Generating 2D/3D Sections

### **Module 15:Creating Drawings from 3D Models**

- Overview
- Types of Views from 3D Models
- Shaded and Hidden Views
- Creating Views from Flat shots

### **Module 16:Using Visual Styles and Rendering**

- About Visual Styles
- Using the Visual Styles Manager
- About the Rendering Environment and Render Presets

### **Module 17:Using Cameras and Views**

- About Cameras
- Creating Cameras and Views
- Saving 3d files

## Student's Testimonial

**AutoCAD-**"The trainer is **very patient**. He does not mind to keep repeating the same step. I am total new to the **AutoCAD** and he manages to give me self-confident".

**Innovalues Ltd, Singapore**

**AutoCAD-**"My **experience here was good**. I hope that when I will have training I will come here."

**Jose Raul M. Masonsong ,Cold Storage Singapore, Dept. Manager**

**Web Designing-**"Contents in the Web designing course are detailed and benefited to me in my learning journey. The teachers are nice and helpful. **G-TEC is a good place to learn about technology** and I will definitely come back to learn more skills".

**College Student**

**PHP Programming Course** -" Easy to understand concise. Friendly staff would recommend joining the course at G-TEC"

**Entrepreneur, Singapore**

**Adobe Dreamweaver-**"The trainer was **patient** and willing to pass his knowledge on other area as well".

**Nanyang Polytechnic, Management Support Officer, Singapore**

**Ms Office-**"I will encourage everyone to come for the Ms Office Basic course as the **lessons are relevant to work**. Teachers are willing to teach until I understood my work".

**Odin Marine (Singapore) Pte Ltd, Admin Assistant**

**Java/J2EE Programming Course-**"The Java/J2ee course material was well presented and very helpful for my work. I really got a great amount out of it. The one to one **training was excellent. It met all my expectations**. I can even try my hand at getting a SCJP cert now. Thanks to GTEC! "

**Sylvia Lawrence , IBM , IT Professional.**

**C#.net Programming Course-**"G-TEC provides a **good trainer** qualified. It was a **good learning experience** in G-TEC for C#.net".

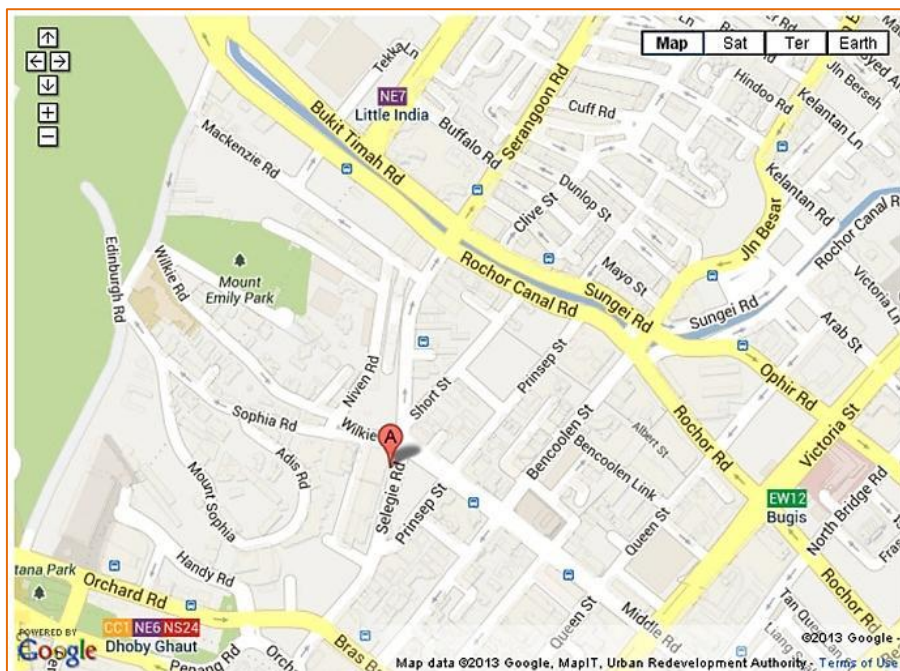
### Our Clients

Singapore Airlines, Bosch, Ministry of Home Affairs, Seagate, Land Transport Authority, NETS , Inland Revenue Authority of Singapore, Tiger Airways, DSO Laboratories, DHL, Changi Airport Group, DB Schenker, National University Hospital, Gemalto, Thales, Housing Development Board, Philips , Micron, Surbana International Consultants Pte. Ltd., Singapore Polytechnic, ING Bank, Nanyang Polytechnic, Nanyang Technological University, Genetic Technologies Solutions, Singapore Chemical Industry Council (SCIC), State Bank of India , ST Engineering, Emerson Process Management, Keppel FELS , ST Aerospace, MCI

## Company Profile

<p><b>What We do :</b></p>	<p>G-TEC Computer Education Centre is an Information Technology company in the field of Software Training, Technology Resourcing and Knowledge Consulting. We provide Corporate Training, Project Training, and Customized Training, One to One trainings for professionals, individuals and students.</p>
<p><b>Who are our Customers :</b></p>	<p>We have special teaching methodologies to train people in different categories ranging from corporate clients to school level students. Over 900000 students are certified by G-TEC all over the world. We have the privilege of working with some of the most well-known companies in the world.</p>
<p><b>Where we are :</b></p>	<p>G-TEC Computer Education Centre is the largest computer education networks with more than 510 centers all over the world and corporate office in Singapore. We are operating in Mexico, Qatar, India, Dubai, Singapore, Kuwait, Srilanka and Iran.</p>
<p><b>Our Goal and Focus :</b></p>	<p>Our aim is to make IT education affordable to all sections of society through various projects associating with government's quasigovernment public and private company to reach each and every corner. Our ultimate goal is to achieve cent percentage computer literacy. We are committed to provide 100% quality training to all; our focus is to provide Quality Education World Wide.</p>

## Our Location



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