



## Google SketchUp

## Training Details

<b>Course Code</b>	<b>: HCCC51</b>
<b>Course Name</b>	<b>: Google SketchUp</b>
<b>Duration</b>	<b>: 2 Months</b>
<b>Eligibility</b>	<b>: Diploma / BE / ME (CIVIL)/ ITI / +2 / Equivalent</b>

## Syllabus:

### INTRODUCTION

#### Lesson 1

##### Meeting Sketch Up

##### *Selections*

- Basic selections
- Window selections
- Modifier keys to add to and subtract from your selection
- Tips for accurate and quick selection sets

##### *Components*

- Components vs. groups
- Editing components
- Component browser

##### *Paint Bucket*

- Applying colors and materials
- Editing colors and materials
- Materials browser

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#### Address:

163 C/1, First Floor, Kamarajar Salai,  
NP TVS Showroom Opp., Ganesh Theatre Signal,  
Santha Pettai Bus Stop Near,  
Madurai – 625 009.



**99443 35447**

**99944 37733**

e mail : [caddmaster5c@gmail.com](mailto:caddmaster5c@gmail.com)

website : [www.caddmaster5c.com](http://www.caddmaster5c.com)

facebook: [www.facebook.com/caddmaster5c/](http://www.facebook.com/caddmaster5c/)

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## Lesson 2

### *Eraser*

- Erase single or multiple edges easily
- How to soften or hide edges with the eraser

### *Rectangle*

- Drawing rectangles on any surface
- Draw a perfect square or golden rectangle
- Being accurate

### *Lines*

- Best practices for drawing lines/ edges
- Drawing accurately
- Dividing edges

### *Circle/Polygon*

- Drawing a circle or polygon
- Changing the number of sides of a circle or polygon
- Viewing addition information through the entity info dialog box

### *Arc*

- How to draw arcs
- Drawing tangent arcs
- Drawing continuous smooth arcs
- Defining number of arc segments

## Lesson 3

### *Freehand*

- Use freehand to draw free form edges

### *Move*

- Move is an auto-selecting tool
- Pre-select objects for more control
- Moving objects with precision
- Common problems
- Select, Copy and Auto-fold videos will show more about the move tool

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### *Push/Pull*

- Pull any flat shape into 3d
- Tips for accuracy and efficiency
- Cut away geometry
- Inferring to other geometry

### *Rotate*

- How rotate works
- Examples of the rotate tool in action
- Lock or define the orientation of the tool

## **Lesson 4**

### *Follow Me*

- Introduction to follow-me capabilities
- Tips about how the shape and path work together
- Speedy tips that create instant follow-me results
- Creating lathed objects

### *Scale*

- Scaling in 2d and 3d
- Accuracy when scaling
- Use modifier keys for more options
- Be aware of axis when scaling

### *Offset*

- Offsetting surfaces vs. edges
- Inferring and speedy tips

### *Tape Measure*

- Measure distances
- Create construction guidelines
- Scale groups or the whole model based on known measurements\_

## **Lesson 5**

### *Dimensioning*

- Add dimensions directly to your model
- Adjust dimension settings

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#### *Protractor*

- Measure angles
- Create construction guidelines
- Control the tool orientation
- Establishing roof slopes

#### *Text & 3D Text*

- Create on-screen text and annotations
- Change text settings
- Pixel vs. real world text size, Creating 3D text

#### *Axes*

- Re-orient the default red, green and blue axes
- Tips for quick axes orientation

### **Lesson 6**

#### *Navigation*

- Use of the orbit, zoom and pan tools
- Navigate using the scroll wheel on your mouse
- Tips for zooming
- Zoom previous, next and zoom extents

#### *Position Camera & Look Around*

- Look around is a stationary viewing tool
- Position camera allows you to place your view
- Position your view exactly
- Changing your field of view

#### *Walk*

- Walking around your model
- Collision detection
- Modifier keys for more options

#### *Sections*

- Create cut-away views of your model in any direction
- Context options for the section plane
- Move and rotate the section plane

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