

SKETCHUP AND VRAY ESSENTIAL TRAINING

Objectives

This 3-day course is to teach trainee the core skills required to model faster and more efficiently using SketchUp Pro software and understand the basic of V-Ray lighting, materials, settings and render elements to create photorealistic visualization. After completing this course trainee will be able to:

- ✓ Navigate interface
- ✓ Manipulate objects
- ✓ Create 3D Model
- ✓ Work with components
- ✓ Work with styles and shadow
- ✓ Render still images using V-Ray

Training Programme Day 1

Chapter	Topic	Duration	Time
Chapter 1	Getting started with SketchUp Interface basics Navigating in SketchUp Walking around in SketchUp Creating camera views Shading faces and edges Creating shadows and fog Using scenes to create multiple views Configuring toolbars	1-Hour	09.00 am- 10.00 am
Chapter 2	 Manipulating Objects Selecting and moving objects Scaling and rotating objects Manipulating faces and edges Advanced selection tools 	1-Hour	10.00 am- 11.00 am

Chapter 3	Drawing in SketchUp		
	 Line tool fundamentals 		
	 Using the Line tool for 3D drawing 		
	 Eraser tools 		11.00 am-
	 Using the Rectangle tool 	2-Hour	01.00 pm
	 Creating rotated rectangles 		
	 Pushing and pulling faces into 3D 		
	 Using the Offset tool to create outlines 		
	 Drawing curved and freehand shapes 		
	 Creating circles and polygons 		
	 Softening and smoothing edges 		
	Using the Follow Me tool		
	Creating 3D text		
Chapter 4	Measuring and Labelling		
	 Using the Tape Measure to create 		
	guidelines		02.00 pm-
	 Using the Protractor tool 	1-Hour	03.00 pm
	 Creating sections 		
	 Creating labels 		
	 Dimensioning 		
Chapter 5	Keeping Model Organized		
	 Grouping objects 		03.00 pm-
	 Working with layers 	2-Hour	05.00 pm
	 Using the Outliner and Entity Info 		

Training Programme Day 2

Topic	Duration	Time
Working with Components, 3D Warehouse and		
Google Earth		
The Component window		
 Creating components 		09.00 am-
 Using the 3D Warehouse 	2-Hour	11.00 am
Using the Component Options window		
Using the Interact tool		
Geo-locating a model		
 Viewing a model in Google earth 		
Working with Materials		
Applying materials		11.00 am-
Editing materials	1-Hour	12.00 pm
Creating materials		
Working with Styles and Shadow		
 Applying styles 		
Creating styles	1-Hour	12.00 pm-
 Discovering the shadow setting 		01.00 pm
	Google Earth The Component window Creating components Using the 3D Warehouse Using the Component Options window Using the Interact tool Geo-locating a model Viewing a model in Google earth Working with Materials Applying materials Editing materials Creating materials Working with Styles and Shadow Applying styles Creating styles	Google Earth The Component window Creating components Using the 3D Warehouse Using the Component Options window Using the Interact tool Geo-locating a model Viewing a model in Google earth Working with Materials Applying materials Editing materials Creating materials Creating materials Working with Styles and Shadow Applying styles Creating styles 1-Hour

Chapter 9	Exporting Animations and CAD files		
	Exporting a Movie		
	 Figuring out the animation export option settings 	1-Hour	02.00 pm- 03.00 pm
	 Exporting a 2D DWG files 		
	Exporting a 3D DWG file		
Chapter 10	Creating Presentation and Documents with LayOut		
	 Building a LayOut Document 		
	 Changing the SketchUp Model 		03.00 pm-
	 Showing the Presentation 	2-Hour	05.00 pm
	 Exporting the Presentation 		
	 Document Setup and Preferences 		

Training Programme Day 3

Chapter	Торіс	Duration	Time
Chapter 11	 Working with Vray for SketchUp Environment Introduction to V-Ray for SketchUp Vray framing system Using templates and parameters 	1-Hour	09.00 am- 10.00 am
Chapter 12	Introduction to framing and Cameras Import and Export The render output and camera Aspect ratio and Focal length	1-Hour	10.00 am- 11.00 am
Chapter 13	 Working with Lightings Vray Light Vray IES VRay Dome and VRay SKy 	2-Hour	11.00 am- 01.00 pm
Chapter 14	 Working with Materials Material Editor , Categories and Vray workspace Bump , Reflection , refraction and mapping Understand Color Mapping Texture editor and parameters Vray texture editor materials 	2-Hour	02.00 pm- 04.00 pm
Chapter 15	 Final Render Vray setting of render Preset and ambient occlusion Use the render elements 	1-Hour	04.00 pm- 05.00 pm