

Online Training

Solid Edge

CUSTOMIZATION

10
Projects
+10 *job*
referrals

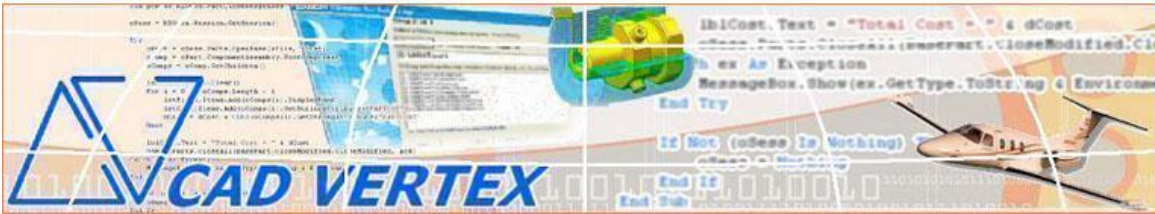
- ✓ Personal Guidance
- ✓ No Recorded Videos
- ✓ Unlimited Support
- ✓ Weekend Batches ++
- ✓ Flexible Timings

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9890611694

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10 pages



CADVertex Solutions

A-16 . Whispering Wind . Pashan-Baner Link Road . Pashan . Pune . 411021
www.CADVertex.com info@cadvertex.com Phone :+91 9890611694

Solid Edge Customization

Language: VB.NET or CSharp

Training Structure

Module 1: VB.Net or CSharp In-depth

Module 2: Solid Edge Files and UI Automation

Module 3: Drawing Automation, Part Automation, Assembly Automation

Fees Check website: <https://www.cadvertex.com/training.htm>

Phone +91 9890611694

eMail: info@CADVertex.com

Features:

- ✓ Personal coaching - no recorded videos.
- ✓ Flexible timings.
- ✓ Weekday batches.
- ✓ Weekend batches.
- ✓ CSharp or VB.Net programming - indepth training included.
- ✓ Unlimited support after training - at no extra cost!
- ✓ 10 industry projects – as listed on next page.
- ✓ Resume Preparation.
- ✓ Interview Preparation.
- ✓ Job referrals.

Training Highlights



Online Training



Flexible Timings



Trainer: 25 yrs Exp.



Duration: 6 Wks



1 Hour Daily



Basic to Advanced



10 Industry Projs



Certificate



Support after Training



CuttingEdge Tech

List of Projects

1. Geometric Calculator
2. Batch Processor
3. Paper Estimation
4. Create 3 Standard Dwg Views
5. Modify Dimensions in Bulk
6. Automatic Title Block Update
7. Layer Purging & Activate Layer by Object
- 8 . Estimate Cutting Cost of a Milling
9. Estimate Cutting Cost
- 10 . Estimate Machining Cost for Part
11. Parametric Parts
12. Product Configurator

Module 1: VB.Net or CSharp In-depth

1. Installing Visual Studio

- Installing an older version.
- Setting the default language.
- Setting the environment and preferences.
- Customizing the layout.
- Solution Explorer, output and error windows.

2. Console applications and introduction to programming

- Selecting a project template.
- Setting up user interaction and collecting inputs.
- Mathematical libraries, calculations and display outputs.
- Using the .Net Math library functions.
- Various files and their meaning in the project structure.
- Separating source code from the executable.

3. Creating a Windows Forms Application

- Setting dialog box properties.
- Toolbox and the Properties window.
- Adding controls: Button, TextBox, Label, Checkbox, RadioButton.
- Adding images to PictureBox and other controls.
- Aligning text and images on controls.
- Composite controls: ListBox and ComboBox.
- Adjusting various properties for each type of control.
- Variable types - Double, Integer, String and Boolean.
- Acquiring user input from textboxes into variables.

4. File Open dialog and File Save dialogs

- Creating basic, compound and composite file filters.
- Dialog properties and startup paths.
- Reading single and multiple files from a file dialog.
- Opening various type of files using a file dialog.

5. Folder Selection Dialog

- Getting files from folder.
- Filtering file types in a folder dialog.
- IO.Directory functions.
- Anchoring controls to the Form.

6. Message Boxes

- Configuring single line and multiline messages.
- Button and icon selection.
- Using If-Then-Else statements.
- Checking message box responses.

7. Arrays

- Filling arrays and reading array elements.
- Filling ListBoxes with array elements.
- For Loop and ForEach loop.

8. Functions and Subroutines

- Arguments in functions.
- Return types in functions.
- ByRef or out arguments.
- Function overloading.

9. Object Oriented Programming

- Creating a class.
- Adding member functions.
- Public and Private methods.
- Encapsulation.
- Polymorphism and function overloading.
- Class libraries.
- Creating objects and invoking methods.
- DLL and EXE - differences and usage.

10. Multi-Form Projects

- Adding Forms to a Winforms project.
- Adding Forms to a console application.
- Form Objects and invoking Forms.
- Default Constructor and modified constructor.
- Exchanging data between Forms.

Module 2 : Solid Edge UI and Document Automation

11. Getting Started

- ❖ Connect to Solid Edge
- ❖ Traversing the Solid Edge object model
- ❖ Solid Edge interface elements
- ❖ Start and stop Solid Edge
- ❖ Show and hide the Solid Edge main window
- ❖ Read-write various properties of the Solid Edge interface

12. Solid Edge Environments

- ❖ Detect active environment
- ❖ Determine active document type

13. Solid Edge Documents:

- ❖ Create new Solid Edge files
- ❖ Open, Close Save and SaveAs Solid Edge files
- ❖ Export Solid Edge documents to other formats
- ❖ Activate files in a session

14. File Handling

- ❖ Windows standard file Open/Save dialogs to select Solid Edge files.
- ❖ Setting Solid Edge file filters and validations
- ❖ Single and multiple file selection
- ❖ Invoke Solid Edge's standard file Open and Save dialogs.

15. Batch Processing

- ❖ [Industry Project](#) - Create a Batch Processor for Handling Solid Edge Documents
- ❖ Use the Windows 'Browse for Folder' dialog, gather all files of a specified type into a .Net collection, selectively remove unwanted files from the list
- ❖ Export the batch of documents to formats like DWG, STP, etc.

Module 3 : Solid Edge Drawing, Part and Assembly Automation

16. Managing Sheets In Drawings

- ❖ Creating drawing sheets
- ❖ Working and Background sheets
- ❖ Accessing, counting sheets and extracting sheet info
- ❖ Switching between sheets
- ❖ Deleting sheets
- ❖ Exporting sheets to DXF, etc.
- ❖ [Industry Project](#) - Estimating Paper Requirement for Printing Drawings

17. Drawing Views

- ❖ Create drawing views
- ❖ View scale and spacing between views
- ❖ [Industry Project](#) - Creating Standard Views of a Model in Solid Edge

18. Dimensions in Drawings

- ❖ Learn to handle Dimensions In Solid Edge Drawings
- ❖ Dimension collection and dimension types
- ❖ Getting and setting properties of dimension like prefix and suffix
- ❖ [Industry Project](#) - Modifying Dimensions in Bulk

19. Handling Text In Drawings

- ❖ Access text objects in a drawing document
- ❖ [Industry Project](#) - Automatic Title Block Updater Program

20. 2D Objects and Layers Drawings

- ❖ Creating 2D objects in a drawing document
- ❖ Accessing 2D elements and its geometrical properties
- ❖ Selection Sets in Solid Edge
- ❖ [Industry Project](#) - Layer Purging and
- ❖ [Industry Project](#) - Activate Layer by Object
- ❖ [Industry Project](#) - Estimate Cutting Cost of a Milling Profile

21. Part Features

- ❖ Traversing the features of a Solid Edge model
- ❖ Determine type of features like hole, extrusions, draft, fillet, etc.
- ❖ Generic collections and feature collections
- ❖ Feature sub-type like various hole types
- ❖ [Industry Project](#) - Estimate Machining Cost for a Plate with Various Holes

22. Parametric Parts

- ❖ Create and control parametric part in Solid Edge
- ❖ Variable Table - dimensions and variables
- ❖ [Industry Project](#) - Update the features of a Parametric Shaft with Keyway.

23. Advanced Part Features

- ❖ Creating variations of a part by manipulating features
- ❖ [Industry Project](#) - Build a Part Configurator from Scratch

24. Solid Edge Document Properties

- ❖ Read and write standard file properties
- ❖ Create, read and write custom properties

25. Solid Edge Assemblies

- ❖ Traverse through all components of a Solid Edge assembly
- ❖ Extract physical properties like area, mass, volume, etc.
- ❖ [Industry Project](#) - Material Estimation for Spray Painting

26. Solid Edge Assembly Generation

- ❖ Inserting parts into an assembly, move and rotate parts
- ❖ Create and link library of components

27. Product Configurator

- ❖ [Industry Project](#) - Create a Solid Edge Product Configurator
- ❖ Automatically generate custom assemblies
- ❖ Create and set up a parts library
- ❖ Build a UI to choose parts from the library
- ❖ Traverse through a Solid Edge product document and build the product configuration as specified by the user

Other eBooks and Training Programs from CADVertex:

- ❖ CATIA Automation: VB.Net or CSharp or Python
- ❖ SolidWorks Automation: VB.Net or CSharp or Python
- ❖ Solid Edge Automation: VB.Net or CSharp or Python
- ❖ Inventor Automation: VB.Net or CSharp or Python
- ❖ NX Open: VB.Net or CSharp with Win Forms
- ❖ NX Open: VB.Net or CSharp with Block UI Styler
- ❖ Knowledge Fusion
- ❖ Knowledge Fusion with Block UI Styler
- ❖ [Revit Automation using CSharp.Net](#)
- ❖ [Tekla Automation using CSharp.Net](#)
- ❖ cMayoCAD: Learn to build a new CAD program from scratch using a Geometric Modeling Kernel and CSharp
- ❖ Machine Learning for Engineers with Python
- ❖ CATIA Automation with Python and Machine Learning
- ❖ NX Automation and Machine Learning with Python
- ❖ Solid Edge Automation with Python + Machine Learning
- ❖ SolidWorks Automation with Python + Machine Learning
- ❖ Inventor Automation with Python + Machine Learning
- ❖ Fast track course in Python with Machine Learning for VB.Net experts
- ❖ Fast track course in Python with Machine Learning for CSharp experts

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Phone & Chat

+ 91 9890611694

eMail

info@CADVertex.com

Website

www.CADVertex.com