



CADVertex Solutions

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Creo VB Toolkit

Language: VB.Net

Training Structure

Module 1: VB.Net Programming.

Module 2: Creo Toolkit Programming.

Training Highlights



Online Training



Flexible Timings



Trainer: 25 yrs Exp.



Duration: 6 Wks



1 Hour Daily



Basic to Advanced



5 Industry Projs



Certificate



Support after Training



CuttingEdge Tech

List of Projects (Automation)

1. Geometric Calculator
2. Create Drawing Views
3. Batch Processor
4. Title Blocks and Annotations
5. Parametric Parts
6. Build Assembly

Module 1: VB.Net or CSharp.Net Programming

1. Installing Visual Studio

- Installing Visual Studio Community version.
- Setting the default language.
- Customizing the layout.
- Solution Explorer, Toolbox and the Properties windows.

2. Introduction to Programming

- Selecting a project template.
- Setting up user interaction and collecting inputs.
- Variable types - Double, Integer, and String.
- Acquiring user input from textboxes into variables.
- 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.
- 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.

4. Arrays and Loops

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

5. Functions and Subroutines

- Arguments.
- Return Types.
- Return Values in Functions.
- Function Overloading.

6. Multi-Form Projects

- Adding Forms to a project.
- Form Constructor and object variables.
- Form objects and invoking Forms.
- Exchanging data between Forms.

7. Object Oriented Programming

- Creating a class.
- Adding member functions.
- Public and Private methods.
- Adding member variables.
- Encapsulation.
- Polymorphism.

Module 2: CAD Automation

8. Creo Documents

- ❖ Connect to Creo.
- ❖ Creo model and window objects.
- ❖ Disconnect a Creo session.
- ❖ Change the working directory.
- ❖ Determine active model type.
- ❖ Create new Creo files – Part and Assembly.
- ❖ Open, Close, Export, and Save Creo files.
- ❖ Access all Creo models in session.

9. Batch Processing

- ❖ [Industry Project](#) - Create a Batch Processor for Handling Creo Documents
- ❖ Gather files into a .Net collection, selectively remove unwanted files from the list
- ❖ Export the batch of documents to formats like STP, etc.

10. Drawing Views

- ❖ Create drawings using templates
- ❖ Create drawing views side view and top view.
- ❖ [Industry Project](#) - Creating standard views of a model in Creo.

11. Handling Texts and Geometric Entities

- ❖ Create 2D entities like lines and points.
- ❖ [Industry Project](#) - Creating a Title Block with Notes.

12. Part Features

- ❖ Traversing the features of a Creo model.
- ❖ Determine the name and type of features.

13. Part Physical Properties

- ❖ Determine the physical properties of a model in Creo.
- ❖ Extract mass, volume, and other information.
- ❖ [Industry Project](#) - Material estimation for spray painting

14. Parametric Parts

- ❖ Control parametric part in Creo.
- ❖ Parameter description and types.
- ❖ Accessing existing parameters.
- ❖ Modify parameters.
- ❖ Model regeneration options.
- ❖ [Industry Project](#) - Update Parametric Shaft, Keyway, etc.

15. Creo Assembly Components

- ❖ List components of a Creo assembly.
- ❖ [Industry Project](#) - Determine interference in assemblies.

16. Build Assembly

- ❖ Assemble parts.
- ❖ [Industry Project](#) - Create a Creo assembly from scratch.

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CADVertex Software

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- ❖ CATIA Automation: VB.Net or CSharp or Python
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- ❖ NX Open: VB.Net or CSharp with Win Forms
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- ❖ [Revit API – Plugin creation using CSharp and Python, Dynamo](#)
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- ❖ cMayoCAD: Learn to build a new CAD program from scratch using a Geometric Modeling Kernel and CSharp

- ❖ Machine Learning for Engineers with Python
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