

## On Your Schedule!

Designed for the unemployed individual who needs fast & flexible training options.

Program options allow training remote or in-center, when they want to, while maintaining on-demand access to Ve-I instructors. Students can access training lessons online 24/7 for self-study.

**Remote Attendance:** Tap directly into our training center remotely and work with our on-staff instructors, on-demand, like you would in a physical training room. Instructors can talk to the students and view their workstation session to assist or share their own screen to lecture.

**In-Center Attendance:** For a small, one-time, incremental fee, students can upgrade their program and attend training in our physical training center. As always, our instructors are available on-demand when you need them. Ve-I provides the facility, workstation & software required to execute the coursework. You can attend based on your schedule, not ours. Attendance need not be contiguous. We accommodate your schedule!

These programs feature all currently available courses for each respective CAD program. If you do not see it listed, just ask! Older software revisions supported.

Ve-I is State of MA Section 30 & TAA Approved Program is WIOA/Section 30/Trade Act Eligible  
Ve-I is a Licensed Post-Secondary Education Institution

*We are a Veteran Friendly Institution*



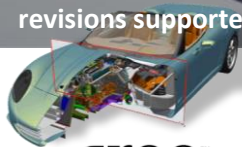
"GI Bill® is a registered trademark of the U.S. Department of Veterans Affairs (VA). More information about education benefits offered by the VA is available at the official U.S. government website at <http://www.benefits.va.gov/gibill>."

*Classes can be taken individually*

Pricing is subject to revision at any time. Ve-I reserves the right to change fees, courses, topics, policies, programs, services and personnel as required. "Unlimited" refers to instructor and facility access during our normal business hours, which are Monday – Friday from 8:00AM to 5:00PM except Federal Holidays and shutdowns. Most course material can be accessed 24/7 for afterhours study. Instructor support is limited to purchased training materials and labs. Remote students must have access to legal CAD Licenses and required modules for the training. A Student Edition may be supplied for an additional fee. Remote setup assistance is included.

# Mechanical Design Applications Specialist Program

This program prepares students to be proficient 3D Parametric Solid Modelers & Detailers using industry standard 3D Mechanical Computer Aided Design (MCAD) tools. Students will learn to create 3D models and produce technically accurate drawings of mechanical parts, mechanisms and assemblies while learning industry standard drafting & modeling practices. Electrical wiring & schematics, piping & HVAC is also taught where applicable. Students will utilize their choice of SolidWorks, Creo (Formerly Pro/Engineer), Inventor or Revit.



**creo™**  
A PTC Product



AUTODESK  
AUTOCAD® CIVIL 3D  
2018



AUTODESK  
REVIT™

AUTODESK  
INVENTOR® PROFESSIONAL  
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AUTODESK  
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Please visit our website for more program details:

<https://www.visible-edge.com/education-programs/>  
& <https://www.visible-edge.com/skills-optimization/>

Visible Edge Institute



**Ve-I**

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## SolidWorks – Core Classes

(MA Program # 1103597)

### Geometry Creation

SolidWorks I - Introduction  
SolidWorks II - Advanced SolidWorks  
SolidWorks Drawings  
Advanced Part Modeling  
Advanced Assembly Modeling  
Sheetmetal  
Surfacing Essentials  
Weldments  
Project Work

### SolidWorks Electives

AutoCAD to SolidWorks  
Advanced Surfacing Using SolidWorks  
SolidWorks Simulation (Mechanical)  
SolidWorks Flow Simulation  
SolidWorks Routing – Piping & Tubing  
Mold Tools and Plastic Design Using SolidWorks  
Mold Design Using SolidWorks  
Using Mathcad with a Parametric Modeler  
Introduction to PLM for SolidWorks Users

## Revit Core Classes

### Revit Architectural - Introduction

Essentials  
Detailing  
Certification Test Prep  
Tips and Tricks

### Revit Structure - Introduction

### Revit BIM

Project Management  
Construction Documents 1  
Construction Documents 2

### Revit MEP

(Mechanical, Electrical & Plumbing)  
Introduction to Revit MEP  
Electrical Systems & Panels  
Fire Protection & Plumbing  
HVAC (Heating, Ventilation and AC)  
Revit MEP Construction Documents

## Autodesk Inventor - Core Classes

### Autodesk Inventor - Essentials

### Autodesk Inventor – Intermediate

Appearance, Materials and Styles

Weldments  
Frame Generator  
Plastic Part Design  
Sheet Metal Design

Tube and Pipe Design Essentials

### Autodesk Inventor – Advanced

iLogic Essentials  
Simulation FEA Essentials  
Cable and Harness Design  
Simulation Kinematic Essentials

## Common Electives

### Geometry Creation

Engineering Drawing & Design  
Fundamentals of GD&T ASME Y14.5 1994/2009  
GD&T ASME Y14.5 2009 Update  
Advanced GD&T  
AutoCAD Mechanical  
AutoCAD Electrical  
AutoCAD Civil 3D  
Visio

### Manufacturing & Process Improvement

Agile /Scrum  
Six Sigma Green Belt (DMAIC)  
Master CAM, NC Simul, Pro/NC  
Lean Management Certification  
Additive Manufacturing (3D Printing)  
Design for Manufacturing and Assembly (DFMA)

### Graphics & Animation

3ds Max, Maya & Keyshot  
Adobe Illustrate & Photoshop  
SketchUp

### Mathcad

Introduction to Mathcad Prime  
App Orientation, Data Exchange and Analysis  
Design of Experiments, Programming Math Expressions  
Symbolics and Solving, Working with Units & Plotting

## Creo - Core Classes (formerly Pro/ENGINEER)

(MA Program # 1101674)

### Geometry Creation

Introduction to Parametric Modeling - Fundamentals  
Introduction to Parametric Modeling - Productivity Tools  
Detailing  
Creating 3-D Drawings  
Flexible Modeling  
Advanced Modeling  
Advanced Assembly Design  
Sheetmetal Design  
Project Work

### Data Management

Introduction to PLM for CAD Users

## Creo Electives

### Industrial

Surfacing  
Freestyle Surface Design  
Interactive Surface Design

### Simulation

Using Mathcad with a Parametric Modeler  
Behavioral Modeling  
Introduction to Simulation  
Manikin (Human Factors)  
Mechanism Design  
Mechanism Simulation

Tolerance Analysis Extension Circuit Card Tutorial  
Tolerance Analysis Extension Electric Motor Tutorial

### Electrical & Routed Systems

Cabling using Parametric Modeling  
ECAD-MCAD Collaboration with Cadence  
Introduction to Schematics  
Piping Schematic Design using Routed Systems Designer  
Piping using Parametric Modeling  
Routed Systems Designer

### Manufacturing

3D Printing  
Advanced Turning and Multi-task Machining  
Turning & Milling  
Mold Flow/Design  
Process for Assemblies