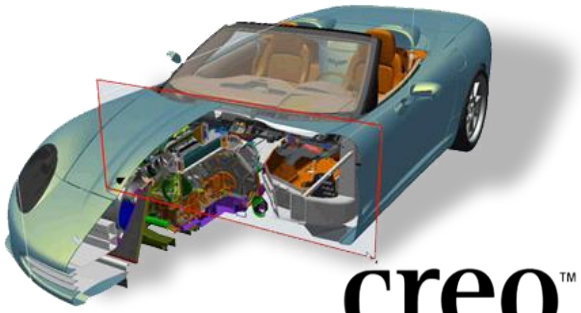

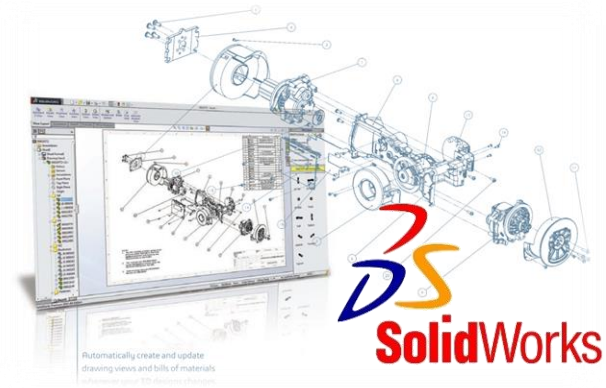

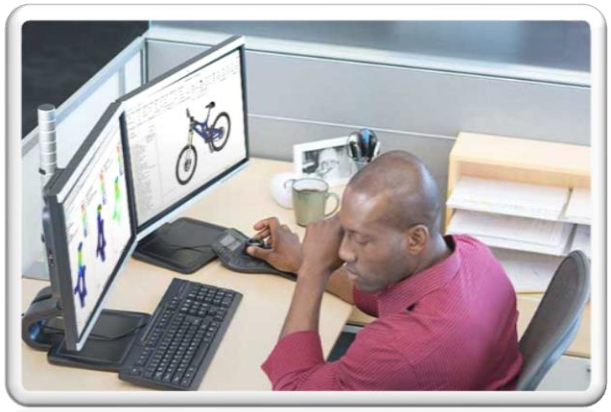

Ve-I is State of MA Section 30 & TAA Approved Program is WIOA/Section 30/Trade Act Eligible
Ve-I is a NH Licensed Career School

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.

We are a Veteran Friendly Institution

POST 9/11 GI BILL
It's Your Future

"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
May also include desktop application classes as needed.

Visible Edge, Inc.
38 Technology Way
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Nashua, New Hampshire 03060
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Website: www.visible-edge.com

Mechanical Design Applications Specialist Certificate Program

Ve-I
A Division of Visible Edge®, Inc.

Visible Edge Institute

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. Students will utilize their choice of SolidWorks, Creo (Formerly Pro/Engineer), Inventor or Revit.

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

- Turning
- Advanced Turning and Multi-task Machining
- Milling
- Mold Flow/Design
- Process for Assemblies

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)

Animation

Keyshot
3ds Max
Maya

Mathcad

Introduction to Mathcad Prime
Application Orientation
Data Exchange and Analysis
Design of Experiments Using Mathcad Prime
Programming Mathematical Expressions
Symbolics and Solving
Working with Units
Plotting

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

Revit Architectural - Intro
Revit Intermediate
Revit Structure - Introduction
Revit MEP – Intro & Construction Docs
Revit BIM – Intro & Project Management

Autodesk Inventor

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