

## On Your Schedule!

Designed for the unemployed, this program provides comprehensive training that is fast & flexible. You can choose electives from all of our other courses plus additional lab work and projects to build a portfolio for potential employers. If you get a job before your scheduled completion date, we will extend your program out to a full 12 months at no charge to you or your future employer. Who else will do this for you? Our Certificate programs give you the experience employers are looking for!

Train remote or in-center, when you want to, while maintaining on-demand access to Ve-I instructors. Training lessons also available 24/7 for self-study.

**In-Center Attendance:** Attend training in our physical training center. 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.

**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.

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.  
If you do not see it listed, just ask.*

# Fundamental & Advanced Manufacturing Certificate Program

**Live Instructors "On-Demand"  
Unlimited Instructor Access  
All Guaranteed-to-Run  
Remote and In-Center  
On Your Schedule**

This program teaches you the basics of manufacturing processes and how companies manage and improve these processes. You will learn skills and concepts in the emerging field of Additive Manufacturing (3D Printing), Process Improvement, Data Analytics, Design for Manufacturing & Assembly (DFMA), Lean Manufacturing, machine code generation, CNC Toolpath Optimization, basics of machining and fabrication and how to create and manage technical documentation that will be used in the manufacturing process.

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.



Visible Edge, Inc.  
38 Technology Way  
The Millyard Technology Park  
Nashua, New Hampshire 03060  
Telephone: (603) 595-1422  
Email: [Ve-I@visible-edge.com](mailto:Ve-I@visible-edge.com)  
Website: [www.visible-edge.com](http://www.visible-edge.com)

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



## Core Learning

### Manufacturing & Process Improvement

*Total Quality Management Certification (TQM)*

*Lean/Six Sigma Healthcare Green Belt Cert.*

*Failure Modes & Effects Analysis (FMEA)*

*Kaizen (Process Improvement methods)*

*Lean/Six Sigma Green Belt Certification*

*3D Printing / Additive Manufacturing*

*Lean Management Certification*

*Six Sigma Green Belt (DMAIC)*

*Value Stream & Process Flow*

*Integration Management*

*Value Stream Mapping*

*Process Improvement*

*Root Cause Analysis*

*Intro to DFMA*

*Agile / Scrum*

*Kanban*

*Visio*

*IoT*

### Project Work

*Design & fabricate a part using 3D printing.*

*Additional Project Work*

### Manufacturing Electives

*Introduction to GD&T*

*Engineering Drawing & Design*

*Fundamentals of GD&T ASME Y14.5 1994/2009*

*GD&T ASME Y14.5 2009 Update, Advanced GD&T,*

*MasterCAM, CAMWorks*

## Data Analytics Electives

*Python*

*Statistics*

*Statistics Certification*

*Python for Data Science*

*LabView & Matlab*

*Introduction to SQL*

*Data Analytics Certification*

*Data Analysis with ThingWorx Analytics*

*PRINCE2® Foundation Certification Training*

## Project Management Electives

*Project Management Fundamentals,*

*Microsoft Project Level 1 & 2,*

*Certified Associate in Project Management*

*(CAPM)® Certification Preparation*

## Data Management Electives

*Creo Parametric Data Management*

*SolidWorks Data Management*

*AutoCAD Data Management*

*ECAD Data Management*

## Enterprise PLM System Electives

*Locate and View Information, Standard Document*

*Management, Change Management, Introduction*

*to PLM for Non-CAD Users, Information Viewers,*

*Reviewers and Approvers, Document Editors and*

*Authors, Engineers & Managers, Manufacturing*

*Engineers, Configuration Managers, Introduction*

*to PLM Manufacturing, ECAD Visualization,*

*Visualization Lite*

## Creo Electives

### Geometry Creation

*Introduction to Parametric Modeling, Detailing,*

*Sheetmetal Design, Flexible Modeling, Adv.*

*Modeling, Advanced Assembly Design, Structural*

*Steel Design, Weldments, Additive Manufacturing*

### Manufacturing

*Turning, Advanced Turning and Multi-task*

*Machining, Additive Mfg. (3D Printing),*

*Milling, Mold Design, ProNC, Process for*

*Assemblies, Tolerance Analysis Extension*

### Routed Systems

*Introduction to Schematics, Routed Systems*

*Designer (RSD), Piping using Parametric Modeling,*

*Piping Schematic Design using RSD, Cabling using*

*Parametric Modeling, ECAD-MCAD Collaboration*

## SolidWorks Electives

### Geometry Creation

*SolidWorks I – Introduction, SolidWorks II -*

*Advanced SolidWorks, Drawings, Advanced Part*

*Modeling, Advanced Assembly Modeling,*

*Sheetmetal, Weldments*

### Manufacturing

*Mold Tools and Plastic Design, Mold Design*

*Additive Mfg. (3D Printing)*

### Routed Systems

*Routing – Piping & Tubing*

Other courses and topics available. Please ask for additional details and available additions to this program.

We can customize to your requirements.