

Core Courses

Advanced Manufacturing & Process Improvement

- Agile/Scrum
- Master CAM
- Root Cause Analysis
- Six Sigma Green Belt (DMAIC)
- Lean Management Certification
- Additive Manufacturing (3D Printing)
- Lean/Six Sigma Green Belt Certification
- Failure Mode & Effects Analysis (FMEA)
- Kaizen (Process Improvement methods)
- Total Quality Management Certification (TQM)
- Lean/Six Sigma Healthcare Green Belt Certification
- Visio for Value Stream & Process Flow Chart Mapping
- Introduction to Design for Manufacturing & Assembly (DFMA)



What Is Lean Six Sigma?



Elective Courses (partial list)

Manufacturing

- Introduction to GD&T
- Fundamentals of GD&T ASME Y14.5 1994/2009
- GD&T ASME Y14.5 2009 Update
- Advanced GD&T



**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



"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.**

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Fundamental & Advanced Manufacturing Certificate Program



Visible Edge Institute



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, Design for Manufacturing & Assembly (DFMA), Lean Manufacturing, machine code generation, basics of machining and fabrication and how to create and manage technical documentation that will be used in the manufacturing process.

Electives - Data Management

CAD Specific Workgroup Managers

PLM for SolidWorks Users
Creo Parametric Data Management
PLM for Creo Parametric Users
AutoCAD Data Management
PLM for AutoCAD Users
ECAD Data Management
PLM for ECAD Users



Using an Enterprise PLM System

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



Electives - Project Management

Project Management Fundamentals
Microsoft Project Level 1
Microsoft Project Level 2
Certified Associate in Project Management (CAPM)[®]
Certification Preparation*



Geometry Creation

Engineering Drawing & Design

Electives - Creo

Geometry Creation with Creo
Introduction to Parametric Modeling

Detailing

Sheetmetal Design

Flexible Modeling

Advanced Modeling

Advanced Assembly Design

Structural Steel Design

Manufacturing with Creo

Turning

Advanced Turning and Multi-task Machining

Milling

Mold Design

ProNC

Process for Assemblies

Tolerance Analysis Extension Circuit Card Tutorial

Tolerance Analysis Extension Electric Motor Tutorial

Industrial Design with Creo

Surfacing

Freestyle Surface Design

Interactive Surface Design

Simulation with Creo

Using Mathcad with a Parametric Modeler

Behavioral Modeling

Introduction to Simulation

Manikin (Human Factors)

Mechanism Design

Mechanism Simulation

Routed Systems with Creo

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



Electives - SolidWorks

Geometry Creation with SolidWorks

SolidWorks I - Introduction

SolidWorks II - Advanced SolidWorks

SolidWorks Drawings

Advanced Part Modeling

Advanced Assembly Modeling

Sheetmetal

Weldments

Manufacturing with SolidWorks

Mold Tools and Plastic Design Using SolidWorks

Mold Design Using SolidWorks

SolidWorks Routing – Piping & Tubing

Industrial Design with SolidWorks

Surfacing Essentials

Advanced Surfacing Using SolidWorks

Simulation with SolidWorks

SolidWorks Simulation (Mechanical)

SolidWorks Flow Simulation

Electives - Other

Mathcad

Design of Experiments Using Mathcad Prime

Mathcad Prime - Application Orientation

Mathcad Prime - Data Exchange and Analysis

Mathcad Prime - Plotting

Mathcad Prime - Programming Mathematical Expressions

Mathcad Prime - Symbolics and Solving

Mathcad Prime - Working with Units

Mathcad Prime 3.0 Integration with SolidWorks

Introduction to Mathcad Prime

Using Mathcad with a Parametric Modeler

Project Work

Design & fabricate a part using 3D printing

Additional Project Work

