

## We train on *your* schedule.

Visible Edge Institute has been providing classroom training for over 30 years and remote training for over a decade. Our flexible, comprehensive training programs are designed to accommodate individuals of **all** skill levels.

As a Licensed Post-Secondary Educational Institution, our training provides students with hands-on experience, in-depth skills in leading applications, and industry-recognized certifications. You'll get the opportunity to earn industry-recognized certifications in all of our programs.

Train remotely or in-center, while maintaining on-demand access to our live instructors. Students can also access training lessons 24/7 for self-study.

**Remote Attendance:** Remotely tap into our training center to work directly with live instructors on-demand via phone, video call, screen sharing, email, chat or text.

**In-Center Attendance:** Choose to attend training in our physical training center on your schedule, not ours. Our renovated in-center learning environment utilizes state of the art equipment and modern learning techniques including one-on-one live instructor interactions, digital materials, labs, and project work.



You may qualify to have your entire program paid for, 100%, with no out-of-pocket costs to you. All programs are federally approved by WIOA, Section 30, Trade Adjustment Act, Vocational Rehab, and more.

## We are a Veteran Friendly Institution.



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

## GLOBAL HEADQUARTERS

**Visible Edge, Inc.**  
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## CONTACT US



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# MECHANICAL DESIGN TECHNOLOGIES

Little to no experience in the Mechanical Design discipline? This program is for you. Explore 3D parametric geometry, the design process, and essential industry topics.



Ve-I reserves the right to change fees, courses, topics, policies, programs, services and personnel as required. "On-Demand" 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. Instructor support is limited to purchased training materials and labs. Remote setup assistance is included.

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# VISIBLE EDGE

# LEARN HOW THINGS WORK - AND HOW TO MAKE THEM WORK EVEN BETTER

Our Mechanical Design Technologies program will guide you through a 4-part series overviewing Manufacturing Processes & Sciences.

Throughout the program, you'll learn how to create 3D parametric geometry using state-of-the-art CAD systems. You will also become familiar with the basics of the Mechanical Design & Development Process.

Gain a comprehensive knowledge of the field, choosing from courses including 3D printing, CNC Machines, Assembly, Mechanical Systems, Manufacturing Process Applications, GD&T, Quality, OSHA, Ergonomics, Workholding, Safety, and more.

You'll then be taught industry-standard skills and tools used by top manufacturers and product development companies around the world.

A vast range of electives are also included in the program to expand your skill set, strengthen your knowledge, increase your employment marketability, and give you a competitive edge.

Visible Edge specializes in the Engineering industry, with over 30 years of experience supplying Mechanical Engineering & Design services and resources. In this program, we'll share our vast industry knowledge with you.

We'll tailor this program to your past experience, current needs, and future goals. Whether you're a complete beginner or an advanced Mechanical Designer - we'll help get you to where you want to be.

## LEARN TO...



Learn how to create 3D parametric geometry using the state-of-the-art CAD system, SolidWorks, and become familiar with the basics of the Mechanical Design & Development Process.



No drafting background? We also offer optional Engineering Drawing & Graphics or Geometric Dimensioning & Tolerancing (GD&T) courses.

## YOU'LL HAVE THE OPPORTUNITY TO EARN INDUSTRY-RECOGNIZED CERTIFICATIONS, INCLUDING BUT NOT LIMITED TO:



Certified Manufacturing Associate (CMfgA)



Certified Manufacturing Technologist (CMfgT)



Certified Manufacturing Expert (CMfgE)



Total Quality Management (TQM)



Certified SolidWorks Associate (CSWA)



Certified SolidWorks Professional (CSWP)



Certified SolidWorks Expert (CSWE)



Certifications in Microsoft Office 365 Associate Specialist for Outlook, Word, Excel, PowerPoint, and Access



## CORE CURRICULUM FOR THIS PROGRAM INCLUDES...

- SolidWorks
- Mechanical Design & Product Development Process
- Mechanical Systems & Mechanical Properties
- Machine Design Fundamentals
- Manufacturing Processes & Sciences
- Engineering Drawings & Graphics
- Design for Manufacturing
- Additive Manufacturing & Machining Basics
- Assembly & Fastener Ergonomics
- Algebra
- Welding, Metals, Plastics, & Abrasives
- Physics

## ADDITIONAL ELECTIVE TOPICS INCLUDE...

- Mechanical & Electrical Engineering
- Electrical Systems
- Mechanics of Materials
- Advanced SolidWorks
- Mechanical Design Basics
- Material Selection
- Manufacturing Guide for Mechanical Product Development
- Safety for Assembly
- Fixture Design & Workholding
- Hydraulics & Pneumatics Systems
- Foundations of Dimensioning & Tolerancing
- Additive Manufacturing (3D Printing)
- Integrating Additive Manufacturing with Traditional Manufacturing
- Sheetmetal
- Microsoft Excel
- Computer Literacy
- Business Etiquette
- Public Speaking for Engineers
- Foundational Mathematics
- Motor Controls
- Robotics
- Mastercam
- FEA

**To learn more about this program, please visit:**

<https://www.visible-edge.com/mechanical-design-technologies/>