

## 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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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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# CIVIL DESIGN TECHNOLOGIES



Learn the required skills  
used by people in the  
Civil Design industry.

# VISIBLE EDGE

## DIVE INTO THE EXPANSIVE WORLD OF CIVIL DESIGN

Focus on all of the skills essential to enter the civil design industry and emerge as a confident Civil Designer.

Throughout our program, you will be introduced to civil design technologies, civil engineering concepts, architectural graphics, sketching, construction techniques, physics, and other current in-demand skills.

As you progress through the program, you'll have the opportunity to gain 3D Parametric Solid Modeling skills using multiple industry-standard 3D Computer Aided Design (CAD) tools such as Revit, Civil 3D, and Plant 3D.

Continue on to create 3D models and produce technically accurate drawings of buildings and other civil structures while learning crucial drafting & modeling practices.

You may choose to dive even deeper into the industry by exploring our vast range of electives - including environmental engineering, advanced modeling, engineering mechanics, organic chemistry, pollution control, calculus, analysis, and more.

### LEARN TO...



Apply industry-standard drafting & modeling practices using Revit, AutoCAD, Civil 3D, Plant 3D and other modern applications.



Create 3D models and produce technically accurate drawings of buildings and other civil structures.



Design & upgrade civil infrastructures.

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



Autodesk Certified Professional (ACP) in Revit Structural



AutoCAD Drafting & Design ACP



Revit for Architectural ACP



LEED Certification



Lean Six Sigma



Project Management Professional (PMP)

## CORE CURRICULUM FOR THIS PROGRAM INCLUDES...

- Architectural Graphics & Sketching
- Civil Design Technologies, Engineering, & Construction
- Physics & Chemistry
- Revit Architecture, Structure, & Detailing
- Statics for Civil & Architectural Designers
- Strength of Materials
- Soil Mechanics & Reinforced Concrete Fundamentals
- Construction Industry: Techniques and Technology
- Highway Design & Engineering
- AutoCAD MEP & Civil3D
- Underground Piping Networks
- Water and Waste
- Hydraulics & Hydrology
- Foundation Engineering & Design
- Surveying & Under Ground Piping Networks
- Algebra, Math, Geometry, Calculus, & Trigonometry



## ADDITIONAL ELECTIVE TOPICS INCLUDE...

- Civil Construction Drawings
- Environmental Engineering & Chemistry
- Revit Architecture Advanced
- Environmental Pollution & Protection
- Analysis & Applications using Mathematica
- Python, Spatial Metrics, Engineering Mechanics
- Project Management, Differential Equations
- Materials Science, Fluid Mechanics
- Structural Analysis
- Environment & Ecology Management Concepts
- Probability
- Technical Writing
- Project Planning & Design
- Building Design & Construction Track
- Architectural Design Process
- AutoCAD Electrical
- Revit Advanced Functions
- BIM Clash Detection with Autodesk Revit, Navisworks, and Dynamo
- Autodesk Inventor - Introduction to Advanced
- Photoshop - Visualization for Architects
- Energy & Structural Analysis Tools
- Lumion Essential Training
- Microsoft Excel for Construction Management
- Microsoft Project Essentials, Microsoft Visio
- Mechanical, Electrical, & Plumbing (MEP) Systems
- Green Buildings
- Home Construction
- Construction Measurements & Estimation
- Estimating Building & Construction Costs
- Construction Management Track
- Bridge Design Fundamentals
- Structural Design of Buildings
- Earthquake Engineering
- Geology for Designers & Engineers
- Geomatics & Surveying Principles
- Geotechnical Engineering
- Geographic Information Systems (GIS)
- Coastal Engineering Introduction
- Organic Chemistry & Environmental Pollutants
- Pollution Control of Waste
- Microsoft Excel for Construction Management
- and more.

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

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