



Building Trades Program of Study

Proficiencies Needed to be Successful in Building Trades:

Math:

Numbers & Quantity

- Compute fluently with multi-digit numbers and find common factors and multiples.
- Apply and extend previous understandings of operations with fractions.

Functions

- Understand ratio concepts and use ratio reasoning to solve problems.
- Analyze proportional relationships and use them to solve real-world and mathematical problems.

Geometry

- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Draw, construct, and describe geometrical figures and describe the relationships between them.
- Understand and apply the Pythagorean Theorem.

Science:

Geographic Representation: Spatial Views of the World

- Use maps, satellite images, photographs, and other representations to explain and analyze relationships between the locations of places and regions and their political, cultural, and economic dynamics (e.g. population density, air quality).

English Language Arts:

Reading

- Determine the central ideas of the text and provide an objective summary.
- Determine the meaning of words and phrases as they are used in the text, including figurative, connotative, and technical meanings.
- Evaluate content and multiple sources of information presented in diverse media formats to address a question or solve a problem.

Writing

- Use technology, including the Internet, to produce and publish writing and present the relationships between information and ideas efficiently as well as to interact and collaborate with others.
- Use technology to produce, publish and update individual or shared writing products in response to ongoing feedback, including new arguments or information.
- Draw evidence from literary or informational texts to support analysis, reflection, and research.

Language

- Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing.

Education and Career Pathways out of Building Trades:

Post-Secondary Education:

Recent graduates have been accepted at many colleges, including:

- Vermont Technical College
- Norwich University
- Wentworth Technical College
- University of New Hampshire
- University of Vermont

Apprenticeships or Cooperative Education:

- Apprenticeships available through many construction companies statewide.
- Apprenticeships available through many local electric, plumbing and heating companies.
- Cooperative Education and Job Shadow placements available at numerous Upper Valley businesses and organizations.

Certifications:

- National Center for Construction Education and Research (NCCER): Introduction to Construction Drawings, Civil and Architectural
- CPR/AED and First Aid Training
- WorkKeys National Career Readiness Certification (NCRC)

Employability:

Construction business owner or project manager
Architect
Carpenter
Electrician
Plumber
Flooring/Tile Installer
Mason
Weatherization Installer
And many more!