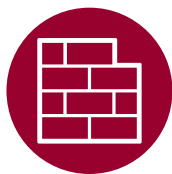




MASONRY

PROGRAM OVERVIEW



Students will gain an understanding in areas such as job layout, mortar composition, and wall construction using brick, block, stone and concrete. This will be accomplished through class assignments, class discussion and practical application of skills learned in the major units

of study which include: shop and job safety, blueprint reading, transit operation, masonry tools and equipment, general construction procedures, brick, block, stone, concrete construction, footings, and cost estimation of time, material, and labor. This program will prepare a student for entry-level employment in the masonry and construction fields.



CAREER OPPORTUNITIES

- **Brick Mason**
- **Block Mason**
- **Concrete Mason**
- **Tile Mason**
- **Stone Mason**
- **Terazzo Mason**
- **Restoration**
- **Mason Tender**
- **Estimator**
- **Retail**
- **Yard Worker -
Material Delivery**
- **Hardscape – Pavers &
Retaining Walls**



POST-SECONDARY EDUCATION OPPORTUNITIES

- **Bricklayers and Allied
Craft Workers Local #3
Apprenticeship Program**
- **Alfred State College
(Building Trades, Masonry)**





PROGRAMS OF STUDY

FOUNDATIONAL COURSES

CTE Foundations: Construction

9th Grade // 1 CTE Credit

Career Research and Exploration

Safety, Tools, and Materials

Basic Construction Skills

Introduction to Construction & Design

10th Grade // 2 CTE Credits

Rotation of Experiences in Carpentry

Masonry, Electrical, and Computer Aided Design & Drawing (CADD)

CAREER MAJOR COURSES

Masonry I

11th Grade // 2 CTE Credits

OSHA 10 Certification

Safety for Masons

Laying Brick to the Line

Identifying Pattern Bonds

Basic Brick Positions and Sizes

Masonry Construction Equipment

Concrete Masonry Units

Laying Block to the Line

Setting and Cutting Tile

Masonry II

12th Grade // 2 CTE Credits

Bobcat Skid-Steer Loader Training Certification

Constructing Block Leads

Constructing Brick Leads

Constructing Composite Walls

Installing Anchored Brick Veneer

Brick Paving and Retaining Wall Systems

Interpreting Blueprints and Specifications

Construct Brick Arches

Advanced Tile Setting



EMPLOYABILITY PROFILE:

The Proficient Masonry Student will...

- Demonstrate employability skills that will help them get a job and meet employer's professional expectations.
- Demonstrate academic knowledge and skills that meet postsecondary requirements.
- Consistently demonstrate safe practices and healthy relationships.
- Properly select, use, store, and maintain all tools and equipment.
- Effectively read a variety of materials and communicate in a variety of situations.
- Accurately solve mathematical calculations, and apply geometric concepts, in context.
- Accurately measure within industry-standard tolerances.
- Demonstrate grit. Persevere through challenges and not give up.
- Interpret working drawings and specifications.
- Analyze the trade theory and science related to masonry.
- Cut and lay brick and block to the line.
- Properly prepare and maintain a safe and efficient working environment.
- Properly prepare and set tile on vertical and horizontal surfaces.
- Properly install brick used as walkways, patios, and driveways.