

CTAP 120 : Construction Trades Math

Credits 3

This course will provide students with a solid foundation in mathematical principles needed for a variety of vocational trades. Trades included, but not limited to Laborers, Iron workers, Carpenters, Cement Masons, Electricians, Finish Trades and Pipe Trades. Students will practice the application of the principles in the shop through a variety of apprenticeship preparation activities and tasks.

Course Outcomes

- Add and subtract construction fractions.
- Calculate and use percentages.
- Convert between fractions and decimals.
- Use and explain various measuring techniques.
- Calculate volume from linear dimensions.
- Explain and apply the concepts of lineal footage, square footage and board footage.
- Explain and apply the concepts of rise, run and diagonal.
- Calculate material and cost.
- Measure accurately as prescribed by trade union guidelines.
- Apply the concepts of construction math, measuring and calculation of materials and cost by passing a comprehensive test that meets the trade union benchmark.
- Use measuring devices correctly so that accurate measurements are obtained.