



## Architecture – Construction – Engineering (ACE) Academy

### Core Coursework

#### Introduction to ACE – or – Construction Fundamentals

- Exposure to ACE career fields

#### ACE English - or - English for the Workplace

- Incorporates blueprint reading

#### ACE Math – or – Math for the Workplace, Geometry for Construction

- Incorporates ACE components into mathmateics

#### OSHA 10

- Orientation to occupational safety

#### Capstone Project

- Hands-on building component (house, shed, tiny home, etc)

#### Jobsite Visit

- Onsite exposure to commercial and residential construction projects

#### ADDITIONAL RECOMMENDED PROGRAM COMPONENTS:

#### Job Shadow

#### Youth Apprenticeship

Additional pieces for technology and trends:

GPS (Topcon/Trimble)

Blue Beam/Plan Grid

Diversity/generational outcomes

# Memorandum of Understanding

\_\_\_\_\_ School District/High School, \_\_\_\_\_ Area Technical College,  
& Associated General Contractors (AGC) of Wisconsin

## OVERVIEW

*A collaborative relationship between the \_\_\_\_\_ High School/School District, \_\_\_\_\_ Technical College and the Associated General Contractors (AGC) of Wisconsin that is mutually beneficial and works toward shared goals and purpose through an agreed upon division of labor, services, outcomes and financial responsibility.*

## PARTNERSHIP OBJECTIVES

Develop and provide ongoing support an Architecture-Construction-Engineering (ACE) Academy at \_\_\_\_\_ High School to provide a pathway for high school students into careers in the Architecture, Construction and/or Engineering upon graduation, while earning technical college credit/advanced placement.

## Key Elements

- Promote a partnership between the skilled trades industry and the school/district
- Skilled trades events coordinated by AGC of Wisconsin and its member contractors
- Job shadow opportunities provided by AGC of Wisconsin – both general and specialty contractors
- Assistance in adherence and education to OSHA and general industry safety standards.
- Professional development opportunities for ACE Academy staff and administrators through AGC of Wisconsin hosted externships and membership meetings.
- Active promotion of a career in the skilled trades, construction management, engineering and architecture with an emphasis on bringing the trades into the schools in an organized, age appropriate, planned manner
- Financial support provided by AGC of Wisconsin
- Multi-year effort
- Speaking opportunities for AGC of Wisconsin members to provide career guidance in the classroom and at appropriate career related events.
- Articulation of identified Academy coursework into college credit at Fox Valley Technical College
- Industry collaboration with staff to provide assistance in curriculum, trade techniques and trends.
- Promotion of Youth Apprenticeship and assistance from the AGC of Wisconsin in navigating the Youth Apprenticeship process.

## Resource Commitment

Ongoing financial commitment by AGC of Wisconsin based on Academy needs such as: fund raising, construction equipment, safety materials, curriculum and professional development needs:

- School Career Fairs and Presentations
- School Hands On Demonstrations
- Youth Apprenticeship Navigation
- Heavy Equipment Simulators