Work Force Development in the Construction Industry

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Overview

What does the future look like

What are some of the challenges we are currently facing

How are we addressing those challenges

What opportunities can we provide

How can this construction network work together
High School Graduation Numbers

- Dropping Graduation numbers
- Interest in going on to higher education is low
- Interest in the field of Construction is low
- Work Ethic has changed
- The rural schools are closing
Figure 1.1. Total U.S. Public and Private High School Graduates (Actual and Projected) 1979 to 2032

Overall High School Graduate Trends

- 65,000 high school graduates, on average, projected per year between school years 2011-12 and 2031-32.

- The total number of graduates in Wisconsin is not projected to increase after 2011-12, ending at 61,900 in 2031-32.

- Wisconsin generates about 9.1% of the Midwest's total, on average.
Education Attainment, Adults 25-64 y.o., 2014
What are some the challenges we are facing

- Commutation skills
- Problem solving skills
- Lack of hands-on experience
- No shop class experience
- Knowledge of steps in construction
- Understanding of opportunities in the construction industry
- Farm/Rural students
How are we addressing those challenges

- Peer Groups
- Advisory Groups
- Curricular Change
- Degree/Program name change
- Hands-On Experience
B.S. Construction Management

- Emphases in Construction Management
- Emphases in Construction Safety Management
- High impact, hands-on Industry relevant student experiences
- Unique hands-on industry – focus including Safety Lab, Commercial Construction Lab, and Road & Infrastructure Lab
Safety Lab

• 3200 Square Feet
• Touch/Feel
• Problem Solving
• Thinking outside the box
Construction Safety Management Emphasis

• In the classroom theory training
• Practical/hands-on experience out at the labs
• Construction Heavy Equipment Safety
• Construction Technical Certifications
• Construction Safety Capstone
• Certified by the BSCP
Commerical Construction Lab

- 2 Acres
- 2 Story Commerical Building
- Operating around heavy equipment
- Fabrication structure elements
- Rigging
Building Plans
Fabrication Shop
Road & Infrastructure Lab

- 4 acres site
- Heavy Highway
- Structures
- Underground Structures
- Underground Utilities
- Overhead Utilities
- Small Bridge
- ADA Sidewalk Layout
- Intersection Layout
- Storm Water Reports
- Traffic Control/Reporting
Road & Infrastructure Plans
Bridge Plans
Construction Management Emphasis

- Intro to Construction
- Building Construction Materials
- Commercial Planning & Design
- Building Systems Analysis
- Construction Estimating
Software

- Bluebeam
- Premivera – P6
- OnScreen Takeoff
- Procore
- Revit
- Auto Cadd
- Microsoft Projects
- Premivera – P6
- OnScreen Takeoff
- Procore
Opportunities UWP Can Provide to Students

- Construction Management Association
- Women in Construction
- Industry Partnership
- Construction Site Tours
- WisDOT Material Testing Certifications
Construction Management Association

- 28 Companies presented last year
- Networking opportunities
- CMA Contractor Breakfast
Industry Partner Presentations

- One to two companies every week present on Wednesday night
- From all different industries
- Networking for students
- Job Opportunities
- Interview time for employers
Site Tours
ABC Construction Management Competition
Opportunities we can provide Industry Partners

• Construction Career Day
• Construction Academy
1st Annual UW-Platteville Construction Career Day
2nd Annual Construction Career Day
2nd Annual Construction Career Day

165 Students in Attendance
28 Industry partners involved
Thank you to this year’s sponsors:

Tower crane sponsor: CG Schmidt Inc.


Hard hat sponsors: AGC of Wisconsin, National Association of Women in Construction, Wisconsin Concrete Pavement Association, Board of Certified Safety Professionals, Southwest Tech, Cemen, JH Cullen
Graduation

- Job Placement 100%
- CM Starting Salary - $60,000 +
- CSM Starting Salary - $68,000+
Hired Before Graduation
Thank You!

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