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Construction Industry Workforce Development Initiative: From High School to High Rises

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Associated Builders and Contractors, Inc. – Central Ohio

ABC Informal Surveys

In 2012, ABC conducted informal surveys of its member companies' workforce development needs and of the local public career centers' ability to meet them. Based on these surveys:

- ABC member companies expressed frustration in their ability to find local, young talent ready to enter the construction trades.
- Company owners and leaders believed that students were not encouraged to explore the possibility of careers in the construction industry.
- Career centers have discontinued many programs and enrollments have declined over the past two decades.
- More career center graduates attend college rather than pursue careers in the construction trades and apprenticeship training programs.



Central Ohio Chapter

Bureau of Labor Statistics Job Outlook 2012-2022

According to the U.S. Department of Labor, Bureau of Labor Statistics (BLS), there will be approximately a 1.7 million skilled labor shortage by 2022.

Job growth in certain sectors is expected to be much faster than average. For example:

Carpenter	-----	24% growth (218,000 jobs)
Electrician	-----	20% growth (114,700 jobs)
Heavy Equip. Operator	--	19% growth (78,200 jobs)
HVAC Technician	-----	21% growth (55,900 jobs)
Masonry	-----	34% growth (29,300 jobs)
Millwright	-----	17% growth (77,400 jobs)
Painter	-----	20% growth (62,600 jobs)
Plumbers	-----	21% growth (82,300 jobs)

Bureau of Labor Statistics Annual Median Pay (2012)

Carpenter	-----	\$39,940
Electrician	-----	\$49,840
Heavy Equip. Operator	--	\$40,980
HVAC Technician	-----	\$43,640
Masonry	-----	\$44,950
Millwright	-----	\$44,840
Painter	-----	\$35,190
Plumbers	-----	\$49,140

Bureau of Labor Statistics Job Outlook 2012-2022

According to the BLS, there will be a serious shortage of skilled project estimators, managers, and safety professionals.

Project Managers	-----	16% growth (78,200 jobs)
Project Estimators	-----	26% growth (53,000 jobs)
Safety Managers	-----	7% growth (4,200 jobs)
Building Inspectors	-----	12% growth (12,500 jobs)
Safety Inspectors	-----	11% growth (2,600 jobs)

Bureau of Labor Statistics Annual Median Pay (2012)

Project Managers	-----	\$82,790
Project Estimators	-----	\$58,860
Safety Managers	-----	\$66,790
Building Inspectors	-----	\$53,450
Safety Inspectors	-----	\$76,830

ABC's Response to Central Ohio Workforce Needs

In response, ABC created a *Blueprint to Success* program by opening the Ohio Construction Academy (OCA) in September of 2013 serving 9th to 12th grade students. OCA is a public, tuition free, fully accredited construction technology academy providing both a high school diploma and hands-on construction training and credentialing. The program provides a blended education opportunity, facilitating both online and on-site instruction. As such, OCA provides hands-on learning experience in the construction trades taught by highly qualified instructors. Students attend construction classes twice per week. Students have online access to their academic curriculum 24 hours a day, providing flexibility in the learning process. Students may also take advantage of free tutoring. In addition, OCA encourages each student to develop the necessary skill, attitudes, and work ethic to be successful in their chosen career path.

Also, in a major partnership in 2013, Zane State College (ZSC) and ABC created unique programs as part of the Ohio Construction Institute (OCI) to help individuals reach their career goals in the construction industry. Apprentices will earn 29 required college credit hours through dual enrollment while in the apprenticeship program. The ZSC courses to complete the associate degrees are offered by OCI at ABC in Columbus. Current students, graduates, and member employees are eligible.

These partnerships between ABC, OCA, OCI, and ZSC provide a seamless, quality, convenient, and articulated career pathway for students interested in construction industry careers all under one roof. Motivated students can complete their apprenticeship and both degrees in under five years.

Ohio Construction Institute



OCA Students Are Prepared

OCA students earn:

- A High School Diploma.
- Up to 2 of 4 levels of apprenticeship training.
- College credit toward an Associated Degree in Construction Technology.

OCA students are prepared to enter:

- Apprenticeship.
- College.
- The Workforce.
- A Career.

Matriculation to Apprenticeship

OCA students can enter the ABC Apprenticeship Program at an advanced level – saving both time and money.

ABC Apprenticeship

ABC Central Ohio (ABC) has been providing apprenticeship training to its regional members since 1968 to provide a safe and productive workforce. Over the years, ABC has trained thousands of individuals in the construction trades, including carpentry, electrical, electronic systems technician, floor layer, heavy equipment operator, HVAC, insulation worker, locksmith, masonry, millwright, painting, pipefitting, plumbing, sheet metal, sprinkler fitting, roofing, and OSHA safety.

ABC Central Ohio programs are registered with the U.S. Department of Labor, Office of Apprenticeship, and the Ohio State Apprenticeship Council. Apprentices who complete their class-related and on-the-job training receive a Certificate of Apprenticeship Completion from the government regulatory agencies.

Apprenticeship tuition is generally paid by the employer.



Matriculation to College

OCA students and apprentices may earn two ZSC associate degrees at OCI at reduced costs due to ABC scholarships for each student.

Zane State College is fully accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools and by the Ohio Board of Regents.

Ohio Construction Academy

Zane State College



OCI Associate Degree in Construction Technology

Students can earn their Associate Degree in Construction Technology by taking the 10 General Courses in addition to their apprenticeship.

General Courses

COURSE	TITLE	*ONLINE
ENGL 1500	Composition I*	
ENGL 2800	Technical Writing*	
COMM 2610	Public Speaking	
HUMS 1020	Critical Thinking*	
GEOL 1350	Geology	
SOCI 1010	Intro to Sociology*	
MATH 1230	Industrial Mathematics	
BMCA 1010	Microcomputer & Apps*	
ARCH 1200	Construction Method/Material	
ENVS 2550	HAZWOPER (OSHA 40)	

OCI Associate Degree in Construction Management

Students can also earn their Associate Degree in Construction Management by taking the 10 Construction Management Courses in addition to the same 10 General Courses listed above.

Construction Management Courses

COURSE	TITLE
CMGT 1990	Safety & Loss Prevention
CMGT 1991	Drafting/Blueprint Reading
CMGT 1992	Project Estimating I
CMGT 1993	Project Management I
CMGT 1994	Architectural Modeling (BIM)
CMGT 2995	Principles of Management
CMGT 2996	Organizational Behavior
CMGT 2997	Project Estimating II
CMGT 2998	Project Management II
CMGT 2999	Construction Law

Financial Aid for College Courses

Students may fill out the Free Application for Federal Student Aid online by visiting <http://www.fafsa.ed.gov>. This form determines eligibility for grants and loans. Students enrolled in the apprenticeship program and one class per semester can qualify for part-time financial aid.

Contact Information

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