

MICHIGAN CONSTRUCTION THE OPPORTUNITY INDUSTRY

“What’s Moving in Apprenticeships”

Presented By: Lee Graham
Training Coordinator



Construction Industry Career Opportunities

Apprenticeships

Asbestos Workers
Boilermakers
Bricklayers & Allied
Craftworkers
Cement Masons
Carpenters/Floor
Layers/Lathers
Electrical Workers
Elevator Constructors
Glaziers & Glassworkers
Iron Workers
Laborers
Millwrights

Operating Engineers
Operative Plasterers' &
Cement Masons
Painters & Drywall Finishers
Plumbers/Pipefitters/HVACR
Technicians/Gas
Distribution
Roofers & Waterproofers
Sheet Metal Workers
Sprinkler Fitters
Tile, Marble & Terrazzo
Masons

Did You Know...

❖ In the Michigan Building Construction Trades, there is a combined \$25,000,000 budgeted for Training Centers annually.... All “self-funded.”

Did You Know...

❖ As well, “combined” they have \$50,000,000 in Training Center property and assets.

Did You Know...

❖ The Michigan Construction Building Trades Apprenticeships provide:

- ❖ Scholarships
- ❖ Great Wages
- ❖ Great Health Benefits
- ❖ Great Pensions
- ❖ Great Training Centers

Did You Know...

- ❖ Some of Michigan's more notable construction projects include:
 - ❖ The Mackinaw Bridge
 - ❖ Comerica Park in Detroit
 - ❖ Soaring Eagle Casino & Resort in Mt Pleasant
 - ❖ U.S. 131 "S" Curve reconstruction in Grand Rapids
 - ❖ Jackson National Life World Headquarters Building in Lansing
 - ❖ State Capitol Building restoration in Lansing
 - ❖ MI House of Representatives Office Building in Lansing
 - ❖ Grand Traverse Resort in Traverse City
 - ❖ Wayne County Metropolitan Airport Midfield Terminal Expansion Project

Did You Know...

- ❖ Some of the new upcoming construction projects include:
 - ❖ Road and bridge construction
 - ❖ I-96 project
 - ❖ M1 Rail
 - ❖ Redwing's Hockey Stadium
 - ❖ Just to name a few...

Websites of Organizations that Support Apprenticeships

- ❖ www.MEATA.org
- ❖ www.MASCI.org
- ❖ www.MichiganBuildingTrades.org
- ❖ www.MiRoad2Work.org
- ❖ www.MiConstructionCareers.org
- ❖ Just to name a few...

OUTREACH

- ❖ Partnerships
 - ❖ Articulation Agreements with Community Colleges
 - ❖ Associates Degree
 - ❖ Masters Degree

OUTREACH

- ❖ Organizations Aligning Themselves with Construction Apprenticeships:
 - ❖ Helmets2Hardhats
 - ❖ Job Corps
 - ❖ National Association of Women in Construction
 - ❖ Project Accelerate
 - ❖ MDOT Youth Mentoring
 - ❖ Magic Camp

OUTREACH – KNOW THE OPPORTUNITY EXISTS



❖ Career Day Events

❖ MI Construction Career Days

❖ Construction Science Expo

❖ Just Build It



APPRENTICESHIP READINESS

❖ **DRAP - Detroit Registered Apprenticeship Program**

❖ **Access for All**

Soft Skills / Essential Skills

- ❖ **Resumes**
- ❖ **Communication- Written, email, text, and verbal**
- ❖ **Attendance**
- ❖ **Attire**

STEM Education

- ❖ **Science – Physics, angle of repose**
- ❖ **Technology – GPS, tablets, smart phones**
- ❖ **Engineering – Structural welding, site layout, equipment set up**
- ❖ **Mathematics – Basic fractions, geometry**



Student Name: Samantha Doe

Student UIC Number: 0134679

School Year: 2013

State Approved CTE Program: 47.0613 Medium/Heavy Truck Technician

PSN: 18679 (Southwest)

Post-Secondary Pgm. Name: Heavy Equipment Technology HEQT

Pgm. Degree: AAS: Assoc/Applied Science

Post CIP Code: _____

School/College/University: Ferris University

Other: Operating Engineers Local 324 Training Center

A well thought out Program of Study is merely a way for parents, students, and counselors to map out career/college readiness after high school for ultimate career success. All secondary coursework should meet graduation requirements, align with academic skills and interests, which may be pursued at the post-secondary level resulting in a certificate, apprenticeship, associate (2yr) degree or bachelor's (4yr) degree.

Grade	ELA	Math	Science	Social Studies	Other Required Courses/Electives	Articulated Credits	SAMPLE Related Occupations
9	English 9	Algebra 1	Biology	Economics		College Credits FSU Auto 111 (4) FSU Auto 112 (4) FSU Auto 113 (4) FSU Auto 114 (4)	<ul style="list-style-type: none"> ► Airplane Pilot/Co-Pilot ► Air Traffic Controller ► Avionics Technician ► Cargo and Freight Agent ► Customs Inspector ► Environmental Manager ► Facility Engineer ► Industrial Equipment Mechanic ► Industrial and Packaging Engineer ► International Logistics Specialist ► Locomotive Engineer ► Marine Captain ► Port Manager ► Safety Analyst ► Storage and Distribution Manager ► Transportation Manager ► Truck Driver ► Urban and Regional Planner ► Warehouse Manager
10	English 10	Geometry	Chemistry	US History			
11	English 11	Algebra 2	3rd Science	World History	First Aid/CPR/AED OSHA Construction	CTE Program Transportation	
12	English 12	4th Math		Government	MUST Online Training (18 or more hours)		

Post-Secondary Courses

Below is a sample representing courses within the program. Note: The order of offerings may vary. Please consult with the post-secondary counselor.

Year	Fall	Winter	Spring	Summer	Related Certifications
13	CRB011301; CRO011301; MS011303; WEL011302 (6 weeks*)	EXC021301; FL1021301; CRG021302; DS1031302;	GPS041301; HZT041301; GRB041301; PV1051301;	D5W111201; OS3111201; PLM121201; PLQ011301	Related Certifications ASE Certifications: Diesel Engines, etc. Michigan Licenses: Heavy Duty Truck Engine Repair Related Work Experience Work-based learning student placement internship
14					
15					
16					

Reset Form

Print Form

Education & Business Partnership Opportunities

Do you have a process for education and industry partnership?

Where do YOU fit in this model?

What skill sets do students need to focus on in preparation to participate in your business?



Know The Opportunity Exists

❖ On a national level:

- ❖ The building trades & their signatory contractors invest over \$1 billion each year in Apprentice & Journeymen training and over \$10 billion each year in wages and benefits.

- ❖ The building trades' affiliates & their signatory contractors have 1,626 training centers in the U.S.

- ❖ 75% of all registered Apprentices in the U.S. are trained in the construction industry.

- ❖ 70% of the construction Apprentices are trained in the organized sector.

- ❖ If the organized apprenticeships were a college it would be the 2nd largest in the U.S.



Thank
you!