

**KICK OFF MARCH 12, 2018**

**DIG DEEP GO PRO**



**MCREADY**

Going **PRO**



[michiganconstruction.com/goingpro](http://michiganconstruction.com/goingpro)

# STATE OF MI'S CONSTRUCTION WORKFORCE



WE NEED TO HIRE  
9,000 PEOPLE THIS  
YEAR.

WILL YOU BE ONE OF THEM?



**MICHIGAN**  
**CONSTRUCTION**

# WHO WE ARE...

The MichiganConstruction Movement

## MICHIGAN CONSTRUCTION FOUNDATION (MCF)

 Founded in April 2016

 501(c)(3) Michigan Nonprofit

 Promote the “MichiganConstruction” brand

 Michigan Concrete Association

 MC READY Going PRO

 [MichiganConstruction.com](http://MichiganConstruction.com)



# THE MISSION...

The Michigan Construction Movement

The logo is a black square containing a white outline of the state of Michigan. Inside the outline of the state, there is a yellow silhouette of a construction worker wearing a hard hat.

**CONNECT PEOPLE ACROSS  
MICHIGAN WITH GOOD PAYING  
JOBS IN CONSTRUCTION.**

# TODAY'S AGENDA



- 👤 Introductions (30-mins)
- 👤 MC READY Module 1: By the Numbers (50-Mins)
- 👤 MC READY Paperwork (30-mins)
- 👤 Lunch w/ MC READY Partners – 12:30
- 👤 GMCA Intro (30-mins)
- 👤 GMCA Paperwork (90-mins)

# INTRODUCTIONS

## THREE QUESTIONS

- 1) Pair Up...with someone you don't know.
- 2) Spend 5 minutes talking.
- 3) Ask the 3 questions.
- 4) Be ready to introduce your new MC READY Teammate

SEPTEMBER 2017

COMMERCIAL

33%

INFRASTRUCTURE

17%

SPENDING BY SECTOR

**MICHIGAN'S  
CONSTRUCTION  
INDUSTRY:**

**BY THE  
NUMBERS**

RESIDENTIAL

40%

INDUSTRIAL

10%



# TWO QUESTIONS?

## WHAT DO YOU WANT TO BUILD?

### INDUSTRY SUBSECTORS

The construction industry's four subsectors each have different owner types, contractual requirements, licensing, regulations, scopes of work, and data sets kept by various government agencies and industry interests:



#### RESIDENTIAL

The residential sector builds, remodels, and maintains the buildings where we all live. Approximately 50 percent of residential builders construct new homes or apartments. Remodeling, service, and maintenance comprise the remaining 50 percent of activity in this sector.



#### COMMERCIAL

The commercial sector builds, remodels, and maintains the buildings where we work, learn, heal, and worship. Also known as nonresidential building construction, the commercial sector represents approximately one-third of overall construction spending on a national level.



#### INFRASTRUCTURE

The infrastructure sector builds and maintains roads, bridges, water and sewer systems, and other critical public works. Infrastructure workers truly change the world by providing the essential services we humans rely on.



#### INDUSTRIAL

The most specialized of the subsectors, industrial workers build complex buildings and facilities all around the globe. Power plants, chemical plants, and refineries are built by the industrial construction sector.

## WHO DO YOU WANT TO BE? OCCUPATIONAL CATEGORIES

The jobs people do in construction are best categorized into five categories. It is important to note that the specific terms used to describe occupations vary greatly. For example, a commercial carpenter is not the same as a residential carpenter. Licensing requirements, qualifications, skills, tasks, and access points for carpentry careers in the residential sector are not the same as for carpenters who want to work in the commercial sector. So just the term carpenter is not sufficient. Most construction occupations have different career paths specific to each of the four industry subsectors.

#### CONSTRUCTION MANAGEMENT

Specific occupations include:  
Project Administrator, Cost Estimator,  
Construction Manager/Supervisor, etc.



#### CONSTRUCTION TRADES

Specific occupations include:  
Bricklayer, Carpenter, Plumber,  
Heavy Equipment Operator, etc.



#### EQUIPMENT, MATERIALS, AND SUPPLIES

Specific occupations include:  
Materials Engineer, Product  
Representative, Material Handlers, etc.



#### ARCHITECTURE, DESIGN, AND ENGINEERING

Specific occupations include:  
Architect, Civil Engineer, Surveyor,  
Interior Designer, etc.



#### TESTING AND INSPECTION

Specific occupations include:  
Building Inspector, Construction  
Material Testing Technician, etc.



## **RESIDENTIAL**

The residential sector builds, remodels, and maintains the buildings where we all live. Approximately 50 percent of residential builders construct new homes or apartments. Remodeling, service, and maintenance comprise the remaining 50 percent of activity in this sector.

### **3 SEGMENTS**

1. Single Family - New Construction
2. Apartment Buildings
  - 3-stories or less
3. Remodeling/Renovation/Repair





## COMMERCIAL

The commercial sector builds, remodels, and maintains the buildings where we work, learn, heal, and worship. Also known as nonresidential building construction, the commercial sector represents approximately one-third of overall construction spending on a national level.

### 8 SEGMENTS

1. Lodging
2. Office
3. Commercial
4. Health Care
5. Educational
6. Religious
7. Public Safety
8. Manufacturing

### BUILDING TYPES

1. Hotels
2. Office Buildings
3. Restaurants
4. Urgent Care/Hospital
5. High School/University
6. Church
7. Fire Station
8. Factory





## INFRASTRUCTURE

The infrastructure sector builds and maintains roads, bridges, water and sewer systems, and other critical public works. Infrastructure workers truly change the world by providing the essential services we humans rely on.

### 5 SEGMENTS

1. Transportation
2. Highway and Streets
3. Sewage & Waste Disposal
4. Water Supply
5. Conservation & Development

### PROJECT TYPES

1. Rail Stations
2. Roads & Bridges
3. Water Treatment
4. House Supply Lines
5. Brownfield & Environmental Clean-up





## **INDUSTRIAL**

The most specialized of the subsectors, industrial workers build complex buildings and facilities all around the globe. Power plants, chemical plants, and refineries are built by the industrial construction sector.

### **4 SEGMENTS**

1. Communication
2. Power
3. Amusement & Recreation

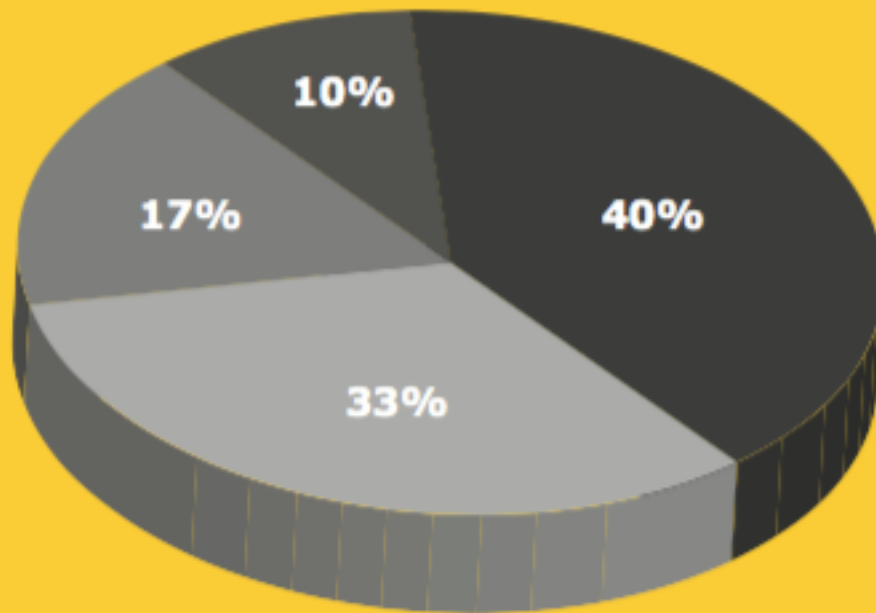
### **PROJECT TYPES**

1. Cell Towers
2. Power Plant/Solar Panels
3. Cedar Point/Stadiums
4. Chemical Plants
5. Refineries



# THE LARGEST SECTOR?

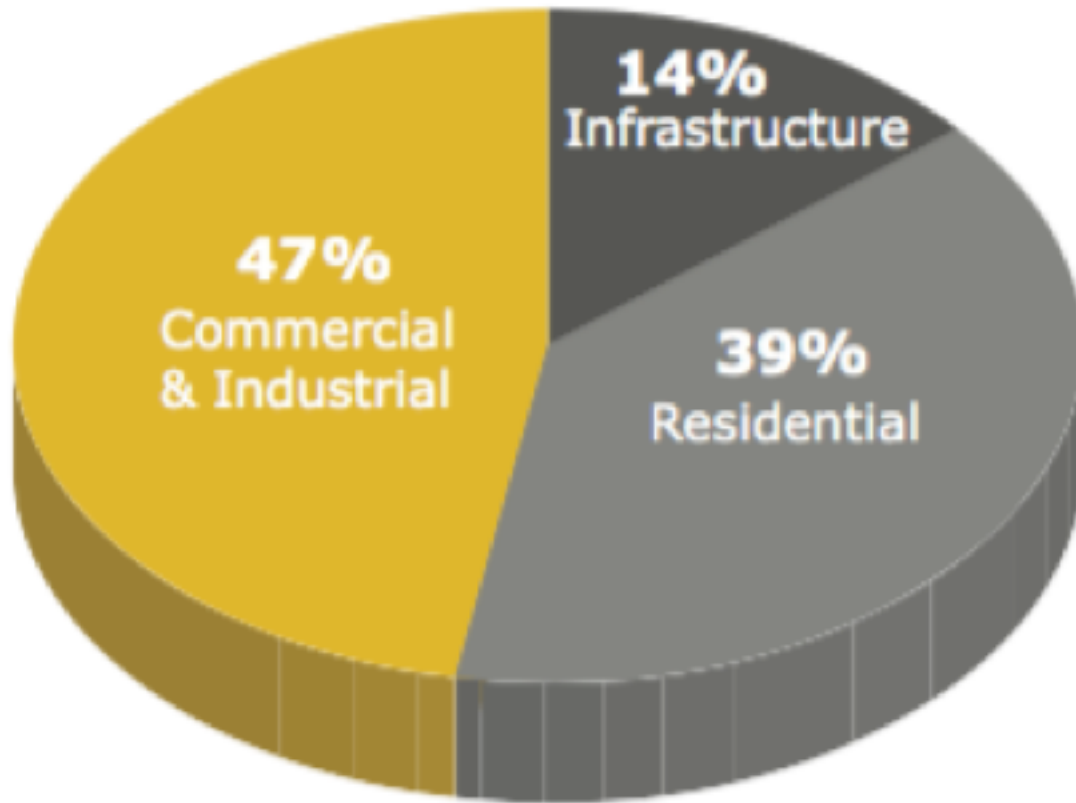
**\$1.164 trillion in 2016**



- Residential 40%
- Commercial 33%
- Infrastructure 17%
- Industrial 10%

*Source: U.S. Census Annual Value of Construction Put in Place 2008-2016*

# THE MOST WORKERS?



# CONSTRUCTION OCCUPATIONAL CATEGORIES

## CONSTRUCTION MANAGEMENT

Specific occupations include:  
Project Administrator, Cost Estimator,  
Construction Manager Supervisor, etc.



## CONSTRUCTION TRADES

Specific occupations include:  
Bricklayer, Carpenter, Plumber,  
Heavy Equipment Operator, etc.



## EQUIPMENT, MATERIALS & SUPPLIES

Specific occupations include:  
Materials Engineer, Product  
Representative, Material Handlers, etc.



## ARCHITECTURE, DESIGN & ENGINEERING

Specific occupations include:  
Architect, Civil Engineer, Surveyor  
Interior Designer, etc.



## TESTING AND INSPECTION

Specific occupations include:  
Building Inspector, Construction  
Material Testing Technician, etc.



## **ARCHITECTURE, DESIGN & ENGINEERING**

After an owner identifies the need to construct or alter a building, a team of professional designers goes to work. Long before the project begins construction, the project's design team has been hard at work transforming the owner's idea into workable construction drawings, plans, and specifications. These are then used to determine project costs, obtain necessary government approvals, and guide the construction phase of the project.

**Specific occupations include:** Architect, Architectural Technician, Civil Engineer, Environmental Engineer, Structural Engineer, Mechanical Engineer, Engineering Technician, Interior Designer, Landscape Architect, and Surveyor.



## **CONSTRUCTION MANAGEMENT**

Typically found in the commercial subsector, construction management (CM) firms assemble experts to manage entire construction projects from design to occupancy, including the permitting process and often all financing and financial aspects of a project. Construction managers represent the owner or end-user of the building or facility. Residential builders are the construction managers of the residential sector. CM firms and residential builders hire other companies called general contractors or sub-contractors to construct the projects.

**Specific occupations include:** Project Administrator, Project Coordinator, Project Engineer, Project Manager, Cost Estimator, and Construction Manager Supervisor.



## **CONSTRUCTION TRADES**

If you are ready to lace-up your boots, put on that hard hat, and get down to some real work, then the construction trades are for you. Numerous trades are utilized to build and finish a building. These occupations are hired by the many specialty trades contractors who are the true employment base of the construction industry.

**Specific occupations include:** Bricklayer, Carpenter, Helper/Laborer, Electrician, Plumber, Heating, Ventilation and Air Conditioning (HVAC) Technician, Heavy Equipment Operator, Insulator, Iron Worker, Painter, Truck Driver, and many, many more.



## **TESTING & INSPECTION**

A building will stay standing only if the workers built the structure according to the plans, specifications, and codes. Teams of people receive specialized education and training to test many types of construction materials or inspect projects for compliance with design specifications and building codes.

**Specific occupations include:** Building Inspector, Concrete Testing Technician, Construction Materials Testing Technician, and Industrial Hygienist.



## **EQUIPMENT, MATERIALS & SUPPLIES**

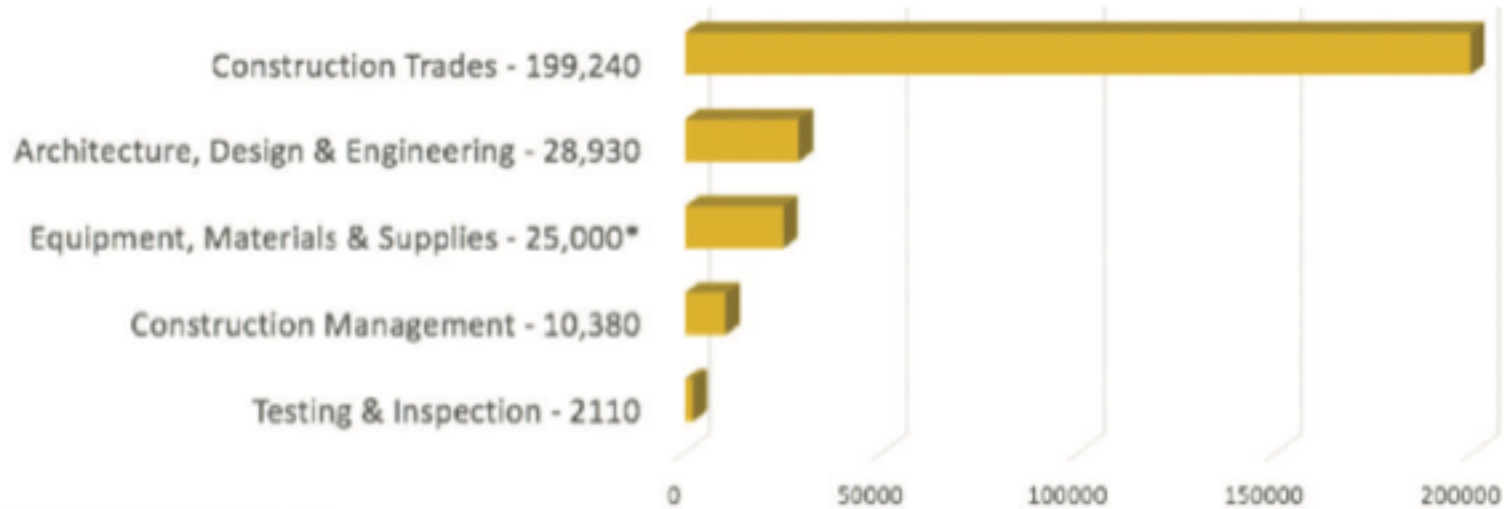
No building or project gets built without wood, concrete, wire, paint, or any of the other products and materials used in construction.

The companies that manufacture, distribute, or sell the millions of products consumed by the construction industry also need a wide range of people to handle and sell their lines. Grounded by the hundreds of wholesale distributors, lumberyards, and retail building product outlets in most every community across the state, a description of the construction industry would not be complete without including product manufacturers, suppliers, and distributors.

**Specific occupations include:** Materials Engineer, Territory Manager, Product Representative, Counter Person, Material Handlers, Sales Person, and Delivery Driver.

# NUMBER OF WORKERS BY OCCUPATION

265,000 MICHIGAN CONSTRUCTION WORKERS



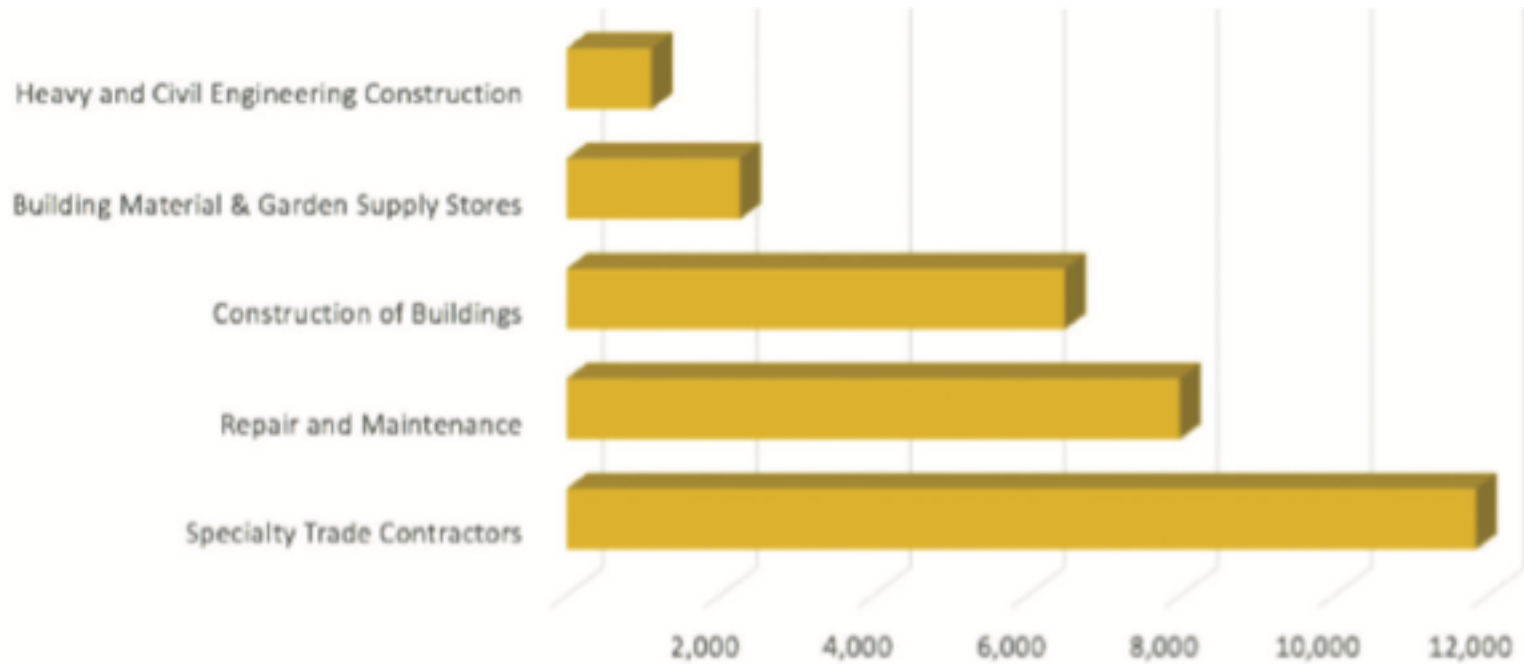
\*Note: MCF Estimate

Source: MI DTMB LMISI Occupational Employment Statistics



# NUMBER OF COMPANIES

30,000 MICHIGAN CONSTRUCTION COMPANIES

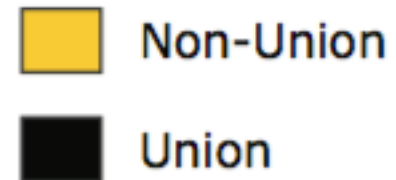
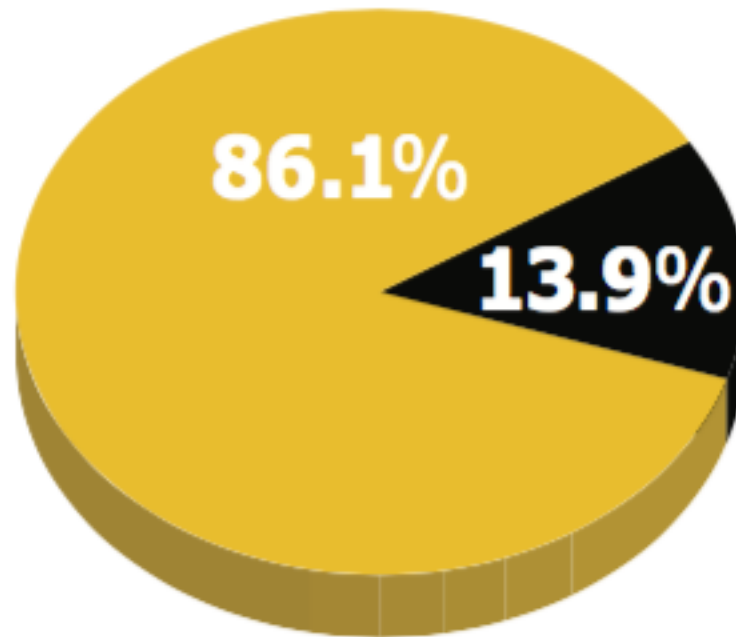


Source: MI DTMB LMISI Quarterly Census of Employment Data 2016



# PERCENTAGE UNION & NON-UNION

NATIONAL NUMBERS



Source: U.S. Bureau of Labor Statistics



# QUESTIONS/COMMENTS

WHAT MORE YOU WOULD YOU LIKE TO LEARN ABOUT?

Resources:

[www.MichiganConstruction.com](http://www.MichiganConstruction.com)

[www.ONETonline.org](http://www.ONETonline.org) - National Occupation Information

[www.milmi.org](http://www.milmi.org) – Michigan Occupation Information

[www.constructiondive.com](http://www.constructiondive.com) – General Industry Information





# **MICHIGAN CONSTRUCTION**

## **MICHIGAN CONSTRUCTION FOUNDATION**

**2937 Atrium Drive, Suite 200**

**Okemos, MI 48864**

**[www.MichiganConstruction.com](http://www.MichiganConstruction.com)**

**[info@michiganconstruction.com](mailto:info@michiganconstruction.com)**

**(844) 200 - 4838**