

## Michigan Career and Technical Institute – East Building Trades

### **Program Description**

This 10 week program will combine industry-focused job readiness, employability skills, and project-based learning (hands on training). The program will use the competency based curriculum designed by the Home Builders Institute. To view the industry competency model follow the link: <http://www.careeronestop.org/CompetencyModel/pyramid.aspx?CONR=Y>

Industry employers are calling for a more knowledgeable and highly skilled workforce. Based on framework of building blocks, the Residential Construction Competency Model provides an abundance of information for employers and job seekers related to the skills necessary for success in the residential construction industry.

### **Application Requirements**

Acceptance in MCTI East program; 5th grade reading/math level.

### **Additional Requirements**

Math skills: Drawing & interpreting graphs, proportions, decimals, fractions, weights & measures, computing ratio, rates & percentages.

### **Aptitude/Abilities**

Ability to make judgments, do precision work, like hands-on work, and likes to work with tools. Average learning ability, average spatial and form perception, average motor coordination.

### **Job Outlook**

As fast as average job growth, coupled with replacement needs, will create a large number of openings each year. Job Opportunities for carpenters also very by geographic area. Median hourly wages of wage and salary carpenters in Michigan is \$20.20.

### **Students will receive training in the following areas:**

- Building Trades Safety and First Aid
- Construction Mathematics
- Tools and Construction Materials
- Employability Skills for construction Industry
- Carpentry Skills
- 10 Hr OSHA Certification

The program is competency based which allows for maximum flexibility to set the pace of the program based on the student's ability to master the skills.

### **MCTI EAST**

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855-246-MCTI toll-free

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Building Trades

**WORK KEYS**

1. Reading for Information Work-Keys Level 3.
2. Applied Mathematics Work -Keys Level 3.
3. Locating Information Work-Keys Level 3.

**CASAS Scaled Score**

1. Reading 216 - 225
2. Math 226 - 235

**Temperament**

1. Performs a VARIETY (V) of tasks.
2. Performs effectively under STRESS (S).
3. Ability to prioritize and work UNDER (U) specific instructions.

**Aptitudes**

1. Average General aptitude (G) GATB: 92-109. Valpar: 3.
2. Average Numerical aptitude (N) GATB: 92-109. Valpar: 3.
3. Average Spatial aptitude (S) GATB: 92-109. Valpar: 3.
4. Average Form perception (P) GATB: 92-109. Valpar: 3.
5. Average Clerical perception (Q) GATB: 92-109. Valpar: 3.
6. Average Motor coordination (K) GATB: 92-109. Valpar: 3.
7. Average Manual dexterity (M) GATB: 92-109. Valpar: 3.

Demonstrate the ability to work effectively under stress, carry out detailed written and oral instructions, good mechanical aptitude, task planning and organization, the ability to problem solve and compute dimensions

**Educational Level**

MATHEMATICAL DEVELOPMENT, It can require adding, multiplying and dividing all units of measure; performing the four operations with like common and decimal fractions; computing ratio, rate, and percent; drawing and interpreting graphs.

**Physical Demands**

M – Medium meaning exerting 20 TO 50 POUNDS OF FORCE OCCASIONALLY, or 10 TO 25 POUNDS OF FORCE FREQUENTLY, greater than negligible up to 10 pounds of force constantly to move objects.

**Environment**

Loud, dusty, hazardous materials may be outside.