



# Masonry/Concrete Fundamentals

Youth Apprenticeship

## MASONRY/CONCRETE FUNDAMENTALS

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Masonry/Concrete Fundamentals youth apprentices gain skills related to the use of construction safety, drawings and blueprints, materials, tools, materials, and general worksite procedures related to the masonry and concrete fields. Apprentices must adhere to industry safety and security standards.

**Length of Apprenticeship:** One or two years

## OCCUPATIONAL COMPETENCIES

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**Year 1:** Masonry/Concrete Fundamentals youth apprentices must complete a **total of 15** Masonry/Concrete Fundamentals Competencies and a **minimum of 1** Masonry/Concrete Specialty Competency. Employers can substitute **1** competency with another occupationally appropriate skill. That skill should be added to the competency list for assessment. Year 1 competencies are completed with employer guidance. Youth apprentices must also complete the following during the first year:

**Youth Apprentices must also complete the following during Year 1:**

- First Aid Certification
- Occupational Safety and Health Administration (OSHA) 10 or 30 Certification

**Year 2:** Masonry/Concrete Fundamentals youth apprentices must complete the **fifteen** Masonry/Concrete Fundamentals Competencies with minimal supervision and a minimum of **2** different Masonry/Concrete Specialty Competencies than the first year. A specialty competency may be repeated only if the type of construction (residential or commercial) differs from the first year. Employers can substitute **1** competency with another occupationally appropriate skill. That skill should be added to the competency list for assessment. Year 2 competencies are completed with minimal employer guidance.

**Select construction type and circle the applicable year:**

- Residential completed during Year: One and/or Two
- Commercial completed during Year: One and/or Two

Note that where necessary, skills can be simulated.

<b>Masonry/Concrete Fundamentals Competencies</b>	<b>Masonry/Concrete Specialty Competencies</b>
<ol style="list-style-type: none"><li>1. Follow safety procedures</li><li>2. Read construction drawings and plans</li><li>3. Interpret symbols and procedures</li><li>4. Contribute to a job task plan</li><li>5. Work as a member of a construction team</li><li>6. Prepare work area for construction</li><li>7. Select construction materials</li><li>8. Use hand and light duty tools</li><li>9. Use power tools and equipment</li><li>10. Perform materials handling</li><li>11. Install materials per job specifications</li><li>12. Perform construction measurements</li><li>13. Maintain a clean and safe work area</li><li>14. Clean up job site</li><li>15. Practice quality craftsmanship</li></ol>	<ol style="list-style-type: none"><li>16. Assist with cutting brick and block</li><li>17. Assist with masonry and installation techniques</li><li>18. Lay masonry units to job specification</li><li>19. Assist with selecting the correct types of materials for the job</li><li>20. Perform volume estimates for material quantity requirements</li></ol>

## **APPRENTICESHIP BRIDGING OPPORTUNITIES**

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Some of the related instruction courses can bridge into the following registered apprenticeship:

- Cement Mason/Concrete Finisher

## **POST-SECONDARY PATHWAY OPPORTUNITIES**

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There are several post-secondary pathway opportunities in this area. The following is a partial list.

- Carpentry