



# Architectural and Construction Occupational Pathways

Youth Apprenticeship

## ARCHITECTURAL DRAFTING AND PLANNING

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Architectural Drafting and Planning Youth apprentices develop the skills needed to read, edit and create architectural drawings. In the second year, youth apprentices expand their skills in developing specific residential or commercial design pieces.

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

**\*Bridging**

## CARPENTRY FUNDAMENTALS

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

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

**Bridges to Carpenter Registered Apprenticeship**

## ELECTRICAL FUNDAMENTALS

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Electrical Fundamentals youth apprentices gain skills related to the use of construction safety, drawings and blueprints, materials, tools and electrical worksite procedures. Apprentices must adhere to industry safety and security standards.

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

**Bridges to Electrical Construction Registered Apprenticeship**

**Bridges to Residential Wirer Registered Apprenticeship**

## GAS DISTRIBUTION TECHNICIAN

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Gas Distribution Technician youth apprentices assist and provide support in the installation, repair and maintenance of the company's natural gas distribution system.

**Length of Apprenticeship:** One year

**Bridges to Metering Technician Registered Apprenticeship**

**Bridges to Substation Electrician Registered Apprenticeship**

**Bridges to Gas Distribution Technician Apprenticeship (local apprenticeship offered through We Energies)**

\*Bridging indicates where a Registered Apprenticeship bridge does not exist, one may be developed.

## **HEAVY EQUIPMENT OPERATOR AND OPERATING ENGINEER**

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Heavy Equipment Operators and Operating Engineer youth apprentices learn fundamental construction skills for commercial and residential developments, dams, roadways, etc. They learn blueprint reading, site layout, working safely and the operation of tools and equipment.

**Length of Apprenticeship:** One year

**Bridges to Heavy Equipment Operator and Operating Engineer Registered 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 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

**Bridges to Cement Mason and Concrete Finisher Registered Apprenticeship**

## **MECHANICAL/HVAC FUNDAMENTALS**

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

**Length of Apprenticeship:** One year

**Bridges to Environmental Systems Technician Registered Apprenticeship**

**Bridges to Heating, Ventilating and Air Conditioning Installation & Service Registered Apprenticeship**

**Bridges to Sheet Metal Worker-Commercial Registered Apprenticeship**

**Bridges to Sheet Metal Worker-Residential Registered Apprenticeship**

## **PLUMBER/SPRINKLER FITTER FUNDAMENTALS**

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Plumber/Sprinkler Fitter Fundamentals youth apprentices gain skills related to the use of plumbing safety, drawings and blueprints, materials, tools, and general worksite procedures. Apprentices must adhere to industry safety and security standards.

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

**Bridges to Automatic Fire Sprinkler Fitter Registered Apprenticeship**

**Bridges to Sprinkler Fitter Registered Apprenticeship**

## **UTILITIES FIELD TECHNICIAN**

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Utilities Field Technician youth apprentices perform routine service work and related duties on utility systems. Youth apprentices perform a wide variety of activities both at the worksite and in the field.

**Length of Apprenticeship:** One year

**Bridges to Electric Line Worker Registered Apprenticeship**

**Bridges to Metering Technician Registered Apprenticeship**

**Bridges to Substation Electrician Registered Apprenticeship**

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