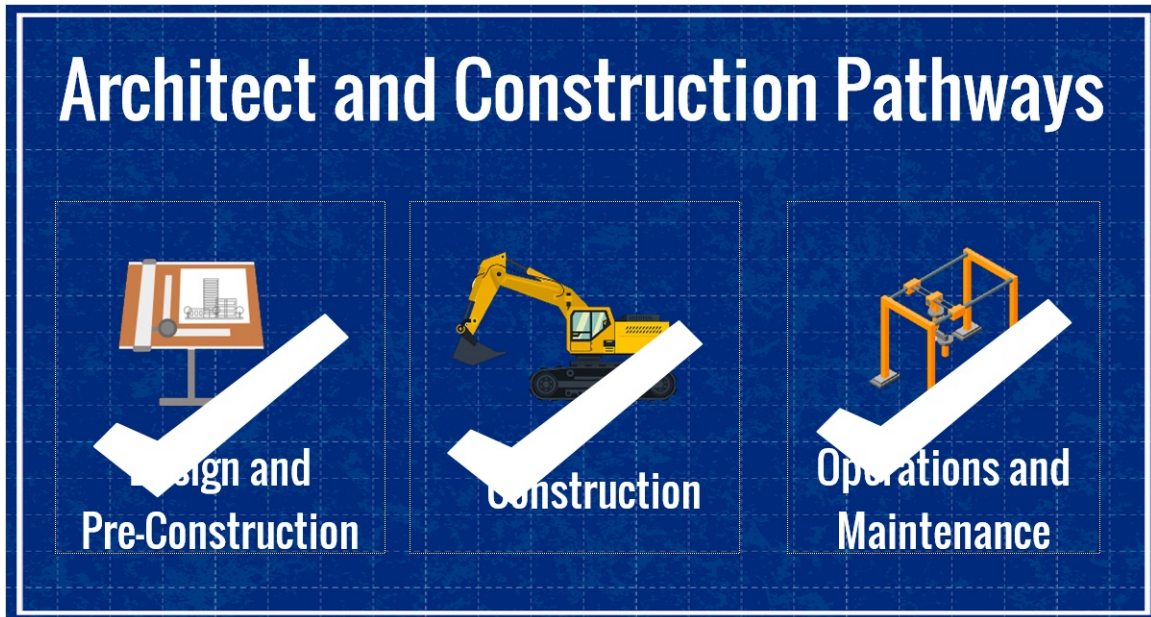


# Middle School Career Investigations Architecture and Construction Pathways

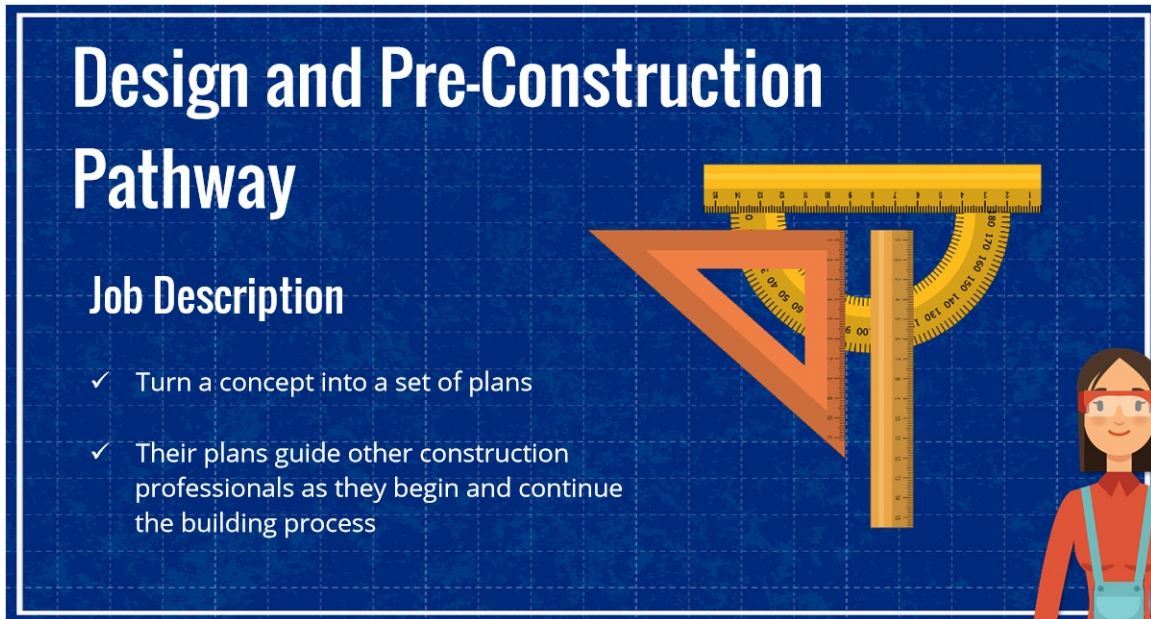
## Pathways Menu



Take a deeper dive into the three pathways that make up the Architect and Construction Career Cluster. Click on each of the icons to learn about the pathways of Design and Pre-Construction, Construction, and Operations and Maintenance.

# Middle School Career Investigations Architecture and Construction Pathways

## Design and Pre-Construction Pathway

An infographic with a dark blue background and a white grid. On the left, the title 'Design and Pre-Construction Pathway' is written in large white font. Below it, the section 'Job Description' is followed by two bullet points. On the right, there are illustrations of a yellow ruler, an orange triangle, a yellow protractor, and a vertical yellow ruler. In the bottom right corner, there is a cartoon illustration of a woman with brown hair, wearing a red shirt, blue overalls, and safety glasses.

### Design and Pre-Construction Pathway

#### Job Description

- ✓ Turn a concept into a set of plans
- ✓ Their plans guide other construction professionals as they begin and continue the building process

Employees with careers in Design and Pre-Construction turn a concept into a set of plans. Their plans guide other construction professionals as they begin and continue the building process.

# Middle School Career Investigations Architecture and Construction Pathways

## Design and Pre-Construction Jobs

### Design and Pre-Construction Pathway

#### Sample Careers

Architect, Architectural Drafter,  
Building Code Inspector,  
Civil Engineer, Cost Estimator,  
Electrical Engineering Technician,  
Interior Designer, Landscape Architect,  
Mechanical Drafter, Mechanical Engineer,  
Survey Technician, Surveyor

Some of the different careers in this pathway include Architect, Architectural Drafter, Building Code Inspector, Civil Engineer, Cost Estimator, Electrical Engineering Technician, Interior Designer, Landscape Architect, Mechanical Drafter, Mechanical Engineer, Survey Technician, and Surveyor.



# Middle School Career Investigations Architecture and Construction Pathways

## Design and Pre-Construction Education

**Design and Pre-Construction Pathway**

Architect	Surveyor
Bachelor's Degree	Associate's Degree
State License	Apprenticeship
Average Salary	Average Salary
\$85,150	\$65,960

The infographic features a dark blue background with a white dashed grid. On the right side, there are illustrations of a yellow T-square, an orange set square, and a yellow protractor. Below these tools is a cartoon illustration of a woman with brown hair, wearing a red long-sleeved shirt, blue overalls, and red safety goggles. The text is presented in white, with the main title in a large, bold font.

There are jobs in the Design and Pre-Construction Pathway for different educational experiences. Architects are required to have a Bachelor's Degree, as well as a state license to practice. They have an average salary of \$85,150. Surveyors require an Associate's Degree, as well as an apprenticeship. The average salary for a surveyor is \$65,960.

# Middle School Career Investigations


## Architecture and Construction Pathways

### Construction Pathway

## Construction Pathway

### Job Description

- ✓ Build and remodel houses, apartments, industrial buildings, warehouses, office buildings, churches, schools, and recreational facilities
- ✓ Also includes the builders of highways, streets, bridges, tunnels, and airports as well as power plants, chemical plants, refineries, and mills



Employees in construction build and remodel houses, apartments, industrial buildings, warehouses, office buildings, churches, schools, and recreational facilities. This pathway also includes the builders of highways, streets, bridges, tunnels, and airports as well as power plants, chemical plants, refineries, and mills.

# Middle School Career Investigations


## Architecture and Construction Pathways

### Construction Jobs

# Construction Pathway

## Sample Careers

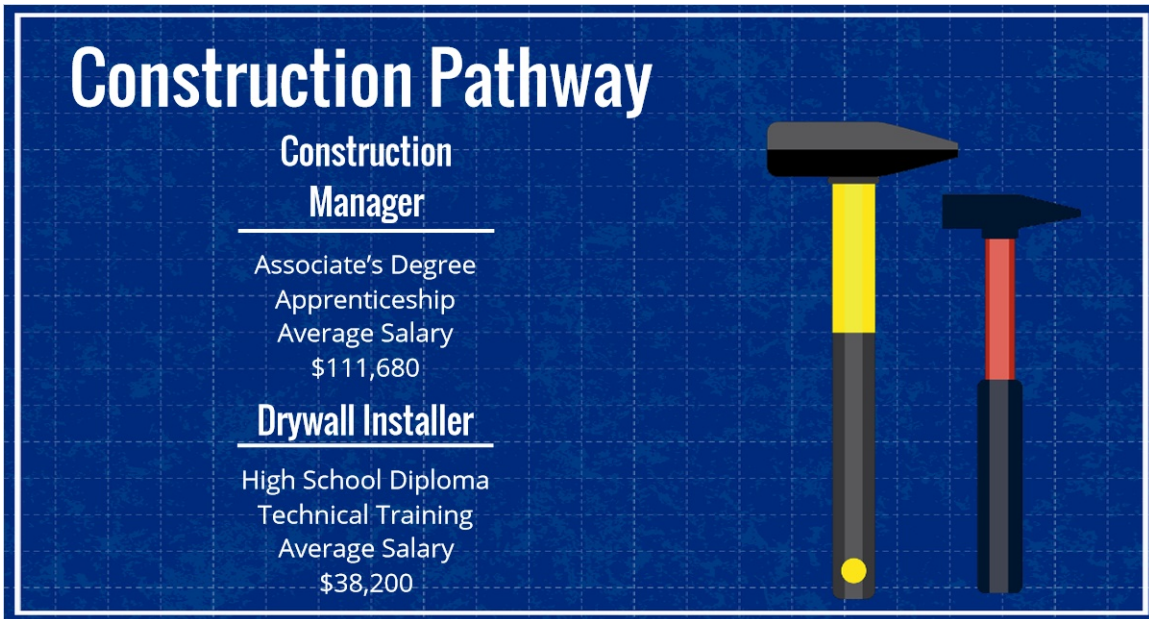
- Cabinetmaker
- Carpenter
- Construction/Building Inspector
- Drywall Installer
- Electrician
- General Contractor
- Mason
- Plumber
- Roofer
- Tile Installer



Some of the different careers in this pathway include Cabinetmaker, Carpenter, Construction/Building Inspector, Drywall Installer, Electrician, General Contractor, Mason, Plumber, Roofer, and Tile Installer.

# Middle School Career Investigations Architecture and Construction Pathways

## Construction Jobs

A graphic titled "Construction Pathway" on a blue grid background. It lists two job roles: "Construction Manager" and "Drywall Installer". To the right of the text are two hammers: a larger one with a yellow handle and a smaller one with a red handle.

Job Title	Education Requirements	Average Salary
Construction Manager	Associate's Degree Apprenticeship	\$111,680
Drywall Installer	High School Diploma Technical Training	\$38,200

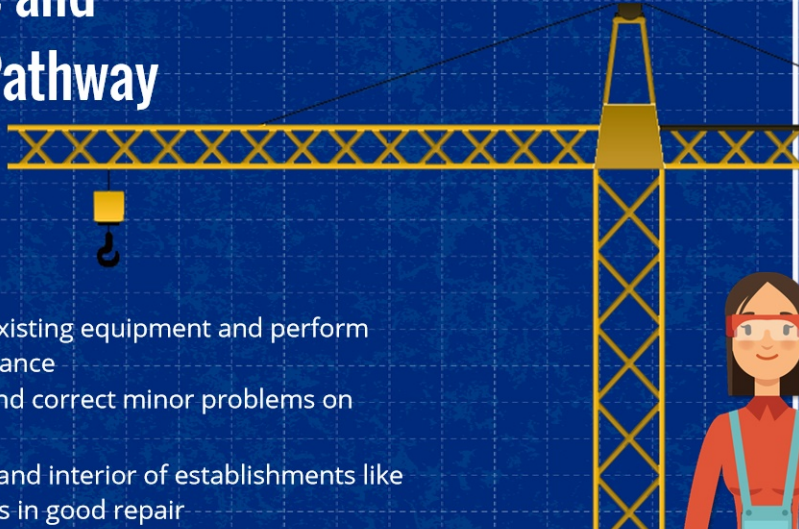
The Construction Pathway has several different education requirements and salary levels. Construction Managers are required to have an Associate's Degree, as well as to complete an apprenticeship. They have an average salary of \$111,680. A Drywall Installer requires technical training to learn his or her skills. The average salary for a Drywall Installer is \$38,200.



# Middle School Career Investigations

## Architecture and Construction Pathways

### Maintenance and Operations Description



## Maintenance and Operations Pathway

### Job Description

- ✓ Oversee new and existing equipment and perform preventive maintenance
- ✓ Detect, diagnose, and correct minor problems on machinery
- ✓ Keep the structure and interior of establishments like homes and factories in good repair

People with careers in maintenance and operations oversee new and existing equipment and perform preventive maintenance. They detect, diagnose, and correct minor problems on machinery. They keep the structure and interior of establishments like homes and factories in good repair.



# Middle School Career Investigations

## Architecture and Construction Pathways

### Maintenance and Operations Jobs

**Maintenance and Operations Pathway**

**Sample Careers**

Cabinetmaker	General Contractor
Carpenter	Mason
Construction/Building Inspector	Plumber
Drywall Installer	Rofer
Electrician	Tile Installer

The graphic includes an illustration of a yellow crane and a construction worker wearing a red shirt, blue overalls, and safety glasses.

Some of the different careers in this pathway include Cabinetmaker, Carpenter, Construction and Building Inspector, Drywall Installer, Electrician, General Contractor, Mason, Plumber, Roofer, and Tile Installer.

# Middle School Career Investigations Architecture and Construction Pathways

## Maintenance and Operations Education

**Maintenance and Operations Pathway**

Construction and Building Inspector	Roofer
Associate's Degree On-the-Job Training Average Salary \$59,000	High School Diploma Technical Training Average Salary \$42,100

There is a range in educational requirements and salaries in this pathway. Construction and Building Inspectors often have Associate's degrees and have engaged in rigorous on-the-job training. They have an average salary of \$59,000. Specialized contractors require a high school diploma and technical training in the area in which they operate. For example, a roofer will need technical training in roofing and safety, while an electrician will need training in the area of his or her expertise. The average salary for a roofer is \$42,100.