

## Architecture & Construction Cluster

**Maintenance/Operations Pathway** - The Maintenance/Operations pathway is designed to prepare students with the entry-level skills to enter the construction maintenance occupations. Students will be able to select occupations from HVAC to carpentry maintenance with skills to enter each of those areas of the construction industry.

**Building Maintenance Technician (Generalist)** - This career major is an introduction to the safety practices, tool and equipment, trade related math, blueprint reading and job opportunities in the building maintenance industry.

**Forklift Operator** - This career major is an introduction to the safety practices, tool and equipment, trade related math, blueprint reading and job opportunities as a forklift operator.

**Construction Technician** - This career major is an introduction to the safety practices, tool and equipment, trade related math, blueprint reading and job opportunities in the construction industry.

**Commercial HVAC Technician** - This career major is an introduction to air-conditioning and refrigeration, exploring career opportunities in the HVAC/R industry, personal safety and work practices, personal protective equipment, handling pressurized fluids, handling hazardous substances, hand and power tools, and equipment used to test and service heating, air conditioning, and refrigeration equipment, including those used to measure air flow.

**Service Careers Custodial Floor Care Technician** - This career major will introduce students to the safe practices, tools and equipment, chemical safety and uses and skills required to enter the floor care industry.

**Plumber** - This career major will introduce students to safe practices, tools and equipment and skills required to enter the plumbing industry.

**Maintenance/Repair Brick Mason** - This career major will introduce students to safe practices, tools and equipment used in the repair of brick, block, stone and tile. These skills will prepare students for entering the brick masonry trade as a maintenance/repair brick mason.

**Maintenance/Repair Carpenter** - This career major will introduce students to safe practices, tools and equipment used in the repair of carpentry on a job site. These skills will prepare students for entering the carpentry trade as a maintenance/repair carpenter. Students will be able to install windows, doors, trim, repair and replace walls and hang sheet rock.

**Maintenance/Repair Concrete Mason** - This career major will introduce students to safe practices, tools and equipment used in the repair of concrete, stone and tile. Students will be instructed in the skills required to prepare the work area, install concrete and finish concrete. These skills will prepare students for entering the concrete masonry trade as a maintenance/repair concrete mason.

**Residential HVAC Technician** - This career major is an introduction to air-conditioning and refrigeration, exploring career opportunities in the HVAC/R industry, personal safety and work practices, and personal protective equipment. Students will be instructed in the proper handling of pressurized fluids, handling hazardous substances, hand and power tools, and equipment used to test and service air conditioning.

**Maintenance/Operations Workforce Transition** - This career major will be use for all ICE (Individualized Cooperative Education) programs to build their training outline.

**Major Appliance Repair Technician** - This career major will introduce students to safe practices, tools and equipment used in the repair of appliances. Students will be trained in the diagnostic skills to determine the repair needs of washers, microwaves, washers and dryers and then make the appropriate repairs.

**Major Appliance Installer** - This career major will introduce students to the safety practices, use of tools and equipment and building code requirements to repair and install appliances in residential and commercial properties. Students will be trained in the installation techniques used by a major appliance installer.

**Service Careers Forklift Operator's Assistant** - This career major will introduce students to the skills required to operate a forklift. Students will be trained in the safe practices and operations of forklifts and how they are used on ruff terrine and in a warehouse setting.

**Service Careers - Building Maintenance Assistant** - This career major will introduce students to the skills required as a building maintenance assistant. Students will be trained in the safety practices and use of tools and equipment related to building maintenance. Students will be trained in basic carpentry, HVAC, plumbing, electrical trades and concrete masonry related trades that could be used by a building maintenance assistant.

**Refrigeration Service Technician** - This career Major will introduce students to air-conditioning and refrigeration, exploring career opportunities in the HVAC/R industry, personal safety and work practices, personal protective equipment, handling pressurized fluids, handling hazardous substances, hand and power tools, and equipment used to test and service heating, air conditioning, and refrigeration equipment, including those used to measure air flow used by a refrigeration service technician.

**Industrial Maintenance Electrician** - This career major will introduce students to the safety practices, use of tools and equipment related to the electrical trade. Students will be trained in applying these skills in an industrial environment and the equipment they will be making repairs on or determining the appropriate replacement needs.