

Construction Technology
Michigan Pathway: Engineering, Manufacturing & Industrial Technology

Sample Objectives or Career Goal:

Entry-level Construction Laborer/Worker, Carpenter, Tradesperson/Professional Carpenter/ Apprentice, Cement and Concrete Mason, Demolition, Worker, Drywall, Insulator, Floor Installer, Plumber, Painter, Roofer, Tile Setter, Construction Supervisor/Manager.

Ideas for Qualifications and Skills:

- Hands on experience working with a wide range of construction materials and equipment.
- Thorough knowledge of materials, methods, and tools involved in the construction or repair of buildings and other structures.
- Excellent use of machines and tools, including knowledge of their designs, repair and maintenance.
- Sound awareness of safe building processes involving general carpentry, site preparation, concrete foundations, and framing procedures with the ability to complete multiple projects on schedule.
- Highly skilled in demolition and construction work including preparing layouts and erecting frameworks.
- Safely and efficiently operates various hand and power tools to include; drills, air compressors, transit and lock levels, saws, planes, rules, carpenter levels, plumb bobs, squares, calipers and making gauges.
- Possess a high school diploma, valid driver's license with excellent driving record, reliable vehicle, good-operating tools and able to lift up to 65 pounds.
- Experience in operating specialized tools and equipment used in performing work in any area of assignment.
- Complete knowledge of applicable safety procedures and practices.
- Complies with federal, state and local regulations concerning OSHA and Right to Know state laws.
- Successfully Earned the Certificate of Achievement in Construction Technology, Frederick V. Pankow Center-2014.
- Ability to calculate and utilize builder's math to ensure project accuracy.
- Able to read, interpret and build projects according to construction plans.
- Proven track record of producing quality work in a timely and efficient manner while adhering to industry safety standards.

Skills:

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| • Insulation & Drywall | • Surveying & Plot Planning | • Window Installation |
| • Painting & Trim Work | • Concrete Block/Pouring | • Framing Methods |
| • Roofing & Trusses | • Foundation Walls | • Basic Plumbing |
| • Basic Electrical Wiring | • Finish Carpentry & Cabinetry | • Efficient Demolition |
| • Fork Lift Operation | • Interpreting Blue Prints | • Drafting |
| • Building code, OSHA Compliance Safety | • Estimating & Proposal Preparation | • Siding Installation |

Personal Management Skills:

- Strong communication, leadership, management and problem solving skills.
- Focused, and able to work with minimal supervision.
- Detail oriented, self motivated work style; proven ability to master new skills quickly and efficiently.
- Motivated and willing to work hard to get the job done.
- Works well with coworkers and displays excellent client service skills.
- Computer skills: MS Office Suite, AutoCAD, Timberline and Prolog.
- Adaptable to different situations in order to learn new skills.
- Self motivated, detail-oriented with proven task prioritizing skills.
- Highly developed work ethic, including exemplary attendance record.

More advanced construction technology skills.....

- Highly developed work ethic, including exemplary attendance record.
- Ability to diagnose, position, join, align, and seal structural components, such as concrete wall sections and pipes.
- Properly dig and install footings, frame walls and roof structures, windows and siding including steel, vinyl, and shingles.
- Effectively signals equipment operators to facilitate alignment, movement, and adjustment of machinery, equipment, and materials.
- Exceptional work in grinding, scraping, sanding, or polishing surfaces, such as concrete, marble, terrazzo, or wood flooring, using abrasive tools or machines.
- Able to effectively diagnose complex electrical and plumbing problems and follow accurate troubleshooting procedures.
- Introduced and trained new construction workers to use construction equipment such as cement mixers and computerized and hand tools.
- Willing to travel as work requires and relocate.