

# Suggested Skills for Success

## Building Path – Building and Construction



This path involves designing, planning, managing, building, and maintaining the built environment. Individuals in these careers work on buildings and other structures. This includes highways, bridges, houses, and buildings. They might create designs or plans for new structures. Or, they might use the plans to build or manage the workers on the construction projects.

Programs	
Architectural Design	Heating, Ventilation, & Air Conditioning (HVAC)
Construction Carpentry	Heavy Equipment Operator
Electrical Trades	

### Career Expectations and Work Preferences

Career Expectations and Work Preferences	<ul style="list-style-type: none"> <li>• Work in various weather conditions (indoors/outdoors/summer/winter)</li> <li>• Work at various heights, using ladders, stooping/bending</li> <li>• Record information (measurements/time/materials/accidents/work changes)</li> <li>• Comply with standards/policies/procedures (safety/maintenance)</li> <li>• Recommend/develop/perform general/preventative maintenance for tools/equipment</li> <li>• Diagnose malfunctioning equipment and correct issues</li> <li>• Study/read/use blueprints/sketches/plans for project layout</li> <li>• Work collaboratively with experts across the building pathway</li> <li>• Doesn't mind loud noises</li> <li>• Awareness of workplace hazards (electrical/equipment/tools/power)</li> <li>• Wear personal protective equipment (safety glasses, hardhats, gloves, safety harnesses, steel-toed boots/hearing protection)</li> </ul>
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### Frequently Used Pathway Skills/Abilities/Strengths

Each career path has a specific set of skills/abilities that employees need for success in the industry. It is recommended that students have, are developing or can develop the skills/abilities listed below.

Sharpness of vision/hearing acuity	<ul style="list-style-type: none"> <li>• Distinguish details/differences visually</li> <li>• Differentiate various sounds</li> <li>• Perceive distance/depth of objects in space</li> <li>• Distinguish between colors (blueprints/wiring diagrams)</li> </ul>
Communication	<ul style="list-style-type: none"> <li>• Express/explain thoughts/ideas</li> <li>• Observe/document/maintain/update accurate records</li> <li>• Listen/relay accurate information in written/verbal manner</li> <li>• Use active listening to give full attention/understanding to others</li> <li>• Able to read/understand blueprints/construction documents</li> <li>• Social communication (appropriate social media/workplace conversations)</li> </ul>
Physical mobility/strength Eye-hand coordination/dexterity	<ul style="list-style-type: none"> <li>• Stoop/bend/walk/carry items safely</li> <li>• Use arm/eye-hand coordination/manual dexterity to grasp/manipulate/assemble items</li> <li>• Ability to use power/hand tools</li> <li>• Lift and carry heavy objects (up to 80 pounds)</li> </ul>
Problem-solving/reasoning	<ul style="list-style-type: none"> <li>• Follow sequenced activities accurately</li> <li>• Work independently with minimal supervision</li> <li>• Apply general rules to specific problems</li> <li>• Develop/follow procedures and processes</li> <li>• Make informed decisions quickly</li> <li>• Study specifications to prepare project layout/work activities</li> <li>• Awareness of surroundings to keep safe</li> </ul>
Academic Strengths	<ul style="list-style-type: none"> <li>• Math/numerical calculations (count/measure/compute/fractions/decimals)</li> <li>• Geometry/spatial awareness</li> <li>• Oral/written communication</li> </ul>

\*The above was constructed from CT Supervisor and Instructor input and should be considered when exploring career-technical programs at MVCTC.  
**Note:** Final acceptance, for admittance, for a student on an IEP will be determined after an IEP meeting is convened with a MVCTC representative in attendance.