



ROBOTICS AND AUTOMATION

Suggested Entry Level Minimum Competencies

Rating Key

1. not essential
2. slightly essential
3. essential
4. very essential

| KEY VOCATIONAL BARRIER FACTORS | 1 | 2 | 3 | 4 |
|--|---|---|---|---|
| Visual Acuity/Depth perception—the ability to detect differences/detail visually | | | | X |
| Auditory Acuity—the ability to detect differences in pitch/sound | | X | | |
| Oral Communication—the ability to verbally express/explain ideas | | | X | |
| Written Communication | | | X | |
| Physical Mobility/Strength | | | X | |
| Eye-Hand Coordination & Dexterity | | | | X |
| WORKER TRAIT CHARACTERISTICS | | | | |
| Ability to get along with other students | | | | X |
| Cooperativeness with instructor | | | | X |
| Attitude toward work including tasks of minimal interest | | | | X |
| Ability to work independently and without close supervision—independent learning on computer lessons | | | | X |
| Ability to stick to assigned task to a positive/expected conclusion | | | | X |
| Dependability (Attendance, Punctuality) | | | | X |
| Ability to work accurately/within industry standards | | | | X |
| Ability to follow and retain: | | | | |
| Oral instructions—multi-step | | | | X |
| Written instructions—multi-step | | | | X |
| Diagram instructions—simple to complex | | | | X |
| Visual model/demonstrated instructions | | | | X |
| Ability to use numerical data (Count, Compute, etc.) in an applied setting | | | | X |
| Ability to discriminate between objects of similar: | | | | |
| Size | | | | X |
| Shape/proportion | | | | X |
| Color | | | | X |
| Spatial Relationships | | | | X |
| Ability to use tools of the trade (computer, protractor, compass, ruler, etc.) | | | | X |
| Dexterity—fine finger | | | | X |
| Ability to organize work process | | | | X |
| Ability to solve problems through a logical process/sequence of steps | | | | X |
| MATH SKILLS—applied in a lab setting | | | | |
| Counting – Recording – Comparing – Calculating (whole numbers, some dec.) - Grade Level 1 - 3 | | | | X |
| Calculating (Fractions – Decimals, Order of Operations, pre-Algebra) – Grade Level 4 – 6 | | | | X |
| Ratio, Algebra, Formulas-- Grade Level 7 - 8 | | | | X |
| Geometry, Advanced Algebra – Grade Level 9+ | | | X | |
| READING SKILLS | | | | |
| Grade Level 1- 4 | | | | X |
| Grade Level 5 - 7 | | | | X |
| Grade Level 8 - 12 | | | | X |
| Grade Level 12+ | | | | X |

*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.

Note: This program is designed primarily for college bound students with commensurate academic skills

Work Preferences to Consider

- Sitting for extended periods of time
- Strong Computer Skills
- Strong Organizational Skills
- Detail Oriented
- Working with small tools and design software
- Creativity and problem solving skills are a plus
- Independent Work

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