



## ELECTRICAL TRADES

Suggested Entry Level Minimum Competencies

### Rating Key

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

<b>KEY VOCATIONAL BARRIER FACTORS</b>	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 & fine finger Dexterity			X	
Computer skills/proficiency			X	
<b>WORKER TRAIT CHARACTERISTICS</b>				
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			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	
Ability to organize work process			X	
Ability to solve problems through a logical process/sequence of steps			X	
<b>MATH SKILLS—in an applied lab setting</b>				
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	
<b>READING SKILLS</b>				
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:** Students should have strong math and science skills.

Work Preferences to Consider

- Don't mind small spaces, Crawling on Hands/Knees, Ladder work
- Write Report/Describe an Operation
- Work as part of a team
- Be able to tell direction (clockwise, counter clockwise)
- Color blindness may or may not be a significant issue depending upon demonstrated coping mechanisms.  
(Limits some electrical occupations)

Other considerations:

- Medical or physical conditions that could be potentially problematic in a training or work setting

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