

ELECTRONICS
College Credit and Careers Network
Dual Credit Articulation Agreement

Upon completion of high school courses equivalent to the following competencies:

- Describe the uses and operating principles of a D.C. power supply.
- Select and safely use power supplies for an application.
- Define the terms, symbols, and abbreviations associated with common resistive electronic components.
- Define the terms, symbols, and abbreviations associated with common magnetic electronic components.
- Define the terms, symbols, and abbreviations associated with common capacitive electronic components.
- Define the terms, symbols, and abbreviations associated with common semiconductor electronic components.
- Define the terms, symbols, and abbreviations associated with common electrical components.
- Define the terms, symbols, and abbreviations associated with common electronic components.
- Define the terms, symbols, and abbreviations associated with D.C. measuring devices.
- Describe the uses and operating principles of a galvanometer.
- Select and safely use a galvanometer for an application.
- Describe the uses and operating principles of a D'Arsonval meter movements.
- Select and safely use a D'Arsonval meter for an application
- Describe the uses and operating principles of a DC ammeter.
- Select and safely use a DC ammeter for an application.
- Describe the uses and operating principles of a D.C. voltmeter.
- Select and safely use a D.C. voltmeter for an application.
- Describe the uses and operating principles of a Ohmmeter.
- Select and safely use a Ohmmeter for an application.
- Describe the uses and operating principles of a Megger.
- Select and safely use a Megger for an application.
- Describe the uses and operating principles of an Analog Multimeter.
- Select and safely use an Analog Multimeter for an application.

- Describe the uses and operating principles of a Digital Multimeter.
 - Select and safely use a Digital Multimeter for an application.
 - Select and safely use voltage, resistance, current meters and multimeters safely and accurately and determine loading effects of these test instruments.
 - Determine need for equipment calibration and prepare calibration schedules for test instruments.
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A student earning a “B” or better may earn college credit at the following college:

<u>College</u>	<u>Course</u>	<u>Credits</u>
Lake Washington Technical College	ELEC 114	4