

Electronics

Emphasis: Electronics Assembler

Degree: Certificate of Completion

Purpose:

To be able to compete for work as an Electronics Assembler. Many electronics manufacturers hire assemblers to assemble electronics subassemblies or complete products. While these jobs do not require the extensive knowledge of an electronics technician, they do require knowledge about electronic components and assembly techniques. Examples of companies that hire assemblers are Boeing, John Fluke Co., Rane, and Hewlett-Packard.

Program Outcomes - Students who successfully complete this program should be able to:

1. Discuss and demonstrate proper use of hand tools and safety procedures in the workplace.
2. Decode resistor values using the EIA resistor color code
3. Identify electronic components and draw the schematic symbols for the components
4. Analyze series and parallel circuits
5. Use Breadboard DC series and parallel circuits
6. Discuss advantages and disadvantages of various soldering types
7. Demonstrate soldering skills
8. Demonstrate how to modify or repair damaged printed

Learning Themes:

General education outcomes at Centralia College help students, faculty, and the general public identify what learning is expected when a student has completed a degree or program. The administration, faculty, and staff have agreed upon the following five Learning Ability Themes which students can expect to encounter in most courses and by the completion of any degree or program.

Reasoning:

The ability to extract information from data, develop ideas and solutions, establish logical progression in thinking, and problem solve using such procedures as literary analysis or the scientific methods.

Written, Oral and Visual Communication:

The ability to make oneself understood in public, interpersonal, professional, artistic, and technical arenas.

Exploration-Self and Others:

An awareness of the values, beliefs, customs, and contributions of persons from one's own and other traditions, ethnicities, classes, and genders.

Resourcefulness:

The ability to adapt to change, such as technological innovations or environmental conditions.

Responsibility:

The ability to be accountable to self, society, and the natural world.

Estimated Quarterly Program Costs (subject to change without notice)

Tests: ASSET/COMPASS	\$15
Resident Tuition (15 credits) and fixed fees*:	\$1427
US Citizen Nonresident Tuition (15 credits) and fixed fees*:	\$1576
Non US Citizen Nonresident Tuition (15 credits) and fixed fees*:	\$3381
*Tuition is subject to change due to State Legislative actions	
Books and supplies (estimate):	\$427
Lab fees:	Refer to quarterly class schedule.

Centralia College provides equal opportunity in education and does not discriminate on the basis of race, gender, color, religion, national origin, age, marital status, sexual orientation, or disability.