

**Corporate College and Community Education**

**Free 5-Week Non-Credit Training Course  
Industrial Maintenance for Shelter Populations Grant**

**Course Title: Electrical Basics**

**Class Meets: Monday, Tuesday & Wednesday-----Time: 9:00 am - 4:00 pm**

**Location: Lawson State Community College - Bessemer Campus**

Millsap Bldg. Lower Level-----1100 9th Ave. SW - Bessemer, AL 35022

**To sign up for the training, contact:**

**Dorothy Henry 205-929-3485**

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**Course Description:**

This course is a presentation of the theory of residential electric circuits and hands-on practice. Appropriate for electrical apprentices, and anyone wishing to modify or better home electrical systems.

**Course Objectives:**

Students will learn how to wire common residential applications. Student will also learn the appropriate materials, methods, tools and safety measures for installing residential wiring.

**Course Curriculum Outline:**

<b><u>Safety</u></b>	<b><u>Fundamentals</u></b>	<b><u>Wiring</u></b>
<ul style="list-style-type: none"> <li>• Insulation &amp; Grounding</li> <li>• Circuit Protection</li> <li>• Electrical Shock</li> <li>• First Aid Procedures</li> <li>• Static Electricity</li> <li>• Static Explosions</li> </ul>	<ul style="list-style-type: none"> <li>• Basic Algebra</li> <li>• Basic Ohms Law</li> <li>• Series Circuit Calculations</li> <li>• Parallel Circuit Calculation</li> <li>• Demonstrate proper use of VOM</li> <li>• Demonstrated ability to perform electrical schematic interpretation</li> </ul>	<ul style="list-style-type: none"> <li>• Commercial Wiring (Intro)</li> <li>• Residential Wiring (Intro)</li> <li>• Wire and conduit installation</li> <li>• Functional knowledge of fundamental NEC Code</li> <li>• Working knowledge of installation, troubleshooting, wiring of breaker</li> </ul>

**Completers Receive:**

- Certificate of Completion
- OSH10 standard industry completion card through the state of Alabama

**The Benefits of Completing this Course:**

Completing this course is a great way to get hands-on experience that could lead to employment, and also help determine if a career in the electrical field is right for you.

**NOTE:** If you want to continue in this field, consider enrolling in Lawson State's Electrical Technology Short Certificate credit course, to build upon your skills. The Workforce Innovation and Opportunity Act (WIOA) provides grants (**Free funding**) for the **Electrical credit course**.