



**OKLAHOMA**  
**CareerTech**

## Badge Details

<b>Name</b>	3960-Mechatronics - Programmable Logic Controllers 1
<b>Description</b>	<p>This certificate covers the principles and applications of different types of logic and programming used to control packaging machinery and systems. Topics include hardware and software composition of control systems, input/output interfacing, basic logic commands and common programming instructions. There is additional emphasis on common program tasks, and troubleshooting PLC based systems.</p>
<b>Criteria</b>	<p><b><i>Candidates receiving this certification will take an exam with the following criteria:</i></b></p> <p>The exam is composed of 100 questions.</p> <ul style="list-style-type: none"><li>• Operation of a PLC</li><li>• Memory Organization and addressing</li><li>• Discrete I/O Interfacing</li><li>• Function and Use of Monitoring Devices</li><li>• Basic PLC Logic Instructions</li><li>• PLC Timer and Counter Instructions</li><li>• Basic PLC Motor control applications</li><li>• Basic PLC Sequencing Applications</li><li>• Basic PLC Machine Application</li><li>• Troubleshooting PLC Based Systems</li><li>• Troubleshooting PLC Hardware and Software</li></ul>