



OKLAHOMA
CareerTech

Badge Details

Name	4593 – Robotics I
Description	The first in a sequence of courses that prepares individuals with a lab-based, hands-on curriculum combining electrical, mechanical and engineering principles. Students will learn to design, build, program, and control robotic devices. A rigorous study and application of electrical concepts will include: sources of energy, electrical safety, use and identification of basic electronic components, sensors and actuators. Engineering concepts will include: mechanical design, prototype development, design testing, programming, and proper engineer documentation.

Criteria	<p><i>Candidates receiving this certification will take an exam with the following criteria:</i></p> <p>The exam is composed of 32 questions.</p> <ol style="list-style-type: none">1. Safety Practices 9%2. Development and Application 9%3. Basic Components of Robots 18%4. Fundamentals of Electricity 26%5. Fundamental Programming 38%
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