

# AUTOMATION TECHNOLOGY PROGRAM

## CERTIFICATE OF PROFICIENCY IN MACHINING CONCEPTS AND OPERATIONS

The Certificate of Proficiency in Machinist Operations program prepares students for entry into the manufacturing of mechanical parts.

Students completing a certificate of proficiency in Machinist Operations will be trained in the use of machine tools and Computer Numerically Controlled (CNC) machines. In the Machinist Operations program, students will:

- Read blueprints, sketches, or computer-aided (CAD) designs
- Setup, operate, and disassemble CNC machine tools
- Align, secure, and adjust cutting tools and work pieces
- Monitor the feed and speed of machines

Machining operators work in machine shops, manufacturing, and tool rooms. Employment projects are based on replacing an aging workforce and potential manufacturing growth in the region.

This certificate of proficiency may be applied to the Technical Certificate in Industrial Electronic Technology and the Associate of Applied Science degree in Industrial Control Systems.

### Curriculum

The matrix below is a sample plan for all coursework required for this program.

Course Number and Name	Credits
ICS 2513 Blueprint Reading, Precision Measurements, and Safety	3
ICS 2523 Machining Technology	3
<b>Total Hours</b>	<b>6</b>

*To receive a Certificate of Proficiency, application must be made to the Office of Student Services. Students must be currently enrolled to request a Certificate of Proficiency be awarded.*