

ADVANCED MANUFACTURING TECHNOLOGY

Program Description

Completion of this technical certification marks the third of four exit points working toward an Associate of Applied Science in Advanced Manufacturing Technology degree. All core courses have been created based on the demand of businesses and industries. Note: Satisfactory completion of courses in the Industrial Production Technology program are prerequisites for the courses in this more advanced technical certificate in advanced manufacturing.

The program length for a full-time student in the Advanced Manufacturing Technology technical certificate is two (2) semesters. The program costs are approximately \$2,550 for tuition and fees and approximately \$900 for books and supplies.

Student Learning Outcomes

Upon successful completion of this technical certificate program a student should be able to:

- Perform all outcomes identified in the Industrial Production Technology program.
- Perform manufacturing system analysis and troubleshooting processes.
- Illustrate flow of materials and resources within the manufacturing cycle.
- Implement and control automated manufacturing processes.

GRADUATION REQUIREMENTS

(Suggested Schedule)

| | | <u>Fall Semester</u> | Credit Hours |
|------|------|--|---------------------|
| MANF | 1032 | Quality Management | 2 |
| MANF | 2034 | Industrial Automation/Robotics | 4 |
| MANF | 2013 | Circuits and Controls for Manufacturing | 3 |
| MANF | 2023 | Fluid Control for Manufacturing | 3 |
| | | <u>Spring Semester</u> | |
| MANF | 2042 | DC Equipment & Controls | 2 |
| MANF | 2053 | Environmental Protection Systems | 3 |
| MANF | 2063 | Industrial Motors and Motor Control | 3 |
| MANF | 2073 | Programmable Logic Controls for Manufacturing | 3 |
| | | Exit: Advanced Manufacturing Technology Technical Certificate | 23 |