

## **Manufacturing and Technology Program-Industrial Technology Option**

### **Program Mission:**

The mission of the Jefferson State Community College Manufacturing and Technology Program-Industrial Technology Option is to prepare entry level technology professionals with a concentration in Industrial Equipment who are competent, ethical, and have a good sense of work ethics.

Coursework includes a strong component of practical applications, hands-on laboratory experience and basic theoretical concepts. Computer applications are an integral part of the curriculum. Graduates offer their employers an immediate contribution as team players equipped with a combination of technical knowledge, problem-solving experience, and communication skills.

The Manufacturing and Technology Program will continuously pursue a highly qualified faculty which constantly strives for excellence in teaching, and which is sensitive to the educational needs and capabilities of students as well as to the changing and on-going needs of the manufacturing industry.

### **Program Outcomes**

- Program Completion - Graduation rate will meet or exceed state viability requirement
- Program Satisfaction – At least 75% of graduates surveyed will report satisfaction with educational preparation (as indicated by very well prepared or adequately prepared on Graduate Survey/Questionnaire)
- Job Placement -75% of graduates will be employed in field or in a manufacturing technology related field within twelve months of graduating
- Employer Satisfaction - 80% of employers surveyed will indicate that graduates were adequately prepared for entry level positions (as indicated by very well prepared or adequately prepared on Employer Survey/Questionnaire)

### **Student Learning Outcomes**

1. Recognize safety hazards in the work place and demonstrate methods to eliminate or mitigate
2. Communicate in a clear and concise manner, verbally and in writing
3. Integrate knowledge of physics, mathematics, mechanics, electronics, fluid power, computers, and programming into the fabrication, installation, and setup of industrial equipment
4. Perform the duties of an entry-level technician in the maintenance/troubleshooting of industrial systems

**Program Mapping:**

**I:** Introduced in this course.

**P:** Practiced in this course.

**M:** Mastered in this course.

<b>COURSES</b>	<b>PLSLO #1</b>	<b>PLSLO #2</b>	<b>PLSLO #3</b>	<b>PLSLO #4</b>
<b>AUT 104</b>		I, P, M	I,	I,
<b>ELM 200</b>	I, P, M	I, P, M	I, P, M	I, P, M
<b>MET 190</b>	I, P, M	I, P, M	I, P, M	I, P, M
<b>ATM 220</b>	I, P, M	I, P, M	I, P, M	I, P, M
<b>AUT 116</b>	I, P, M	I, P, M	I, P, M	I, P, M
<b>AUT 186</b>	I, P, M	I, P, M	I, P, M	I, P, M
<b>AUT 191</b>	I, P, M	I, P, M	I, P, M	I, P, M
<b>AUT 230</b>	I,	I, P, M	I, P, M	I, P, M
<b>ELM 210</b>	I, P, M	I, P, M	I, P, M	I, P, M
<b>MET 220</b>	I, P, M	I, P, M	I, P, M	I, P, M
<b>ELM 215</b>	I, P, M	I, P, M	I, P, M	I, P, M