

## **Industrial Practices**

### **Program Requirements**

Industrial Practices, Certificate Program Checksheet

Includes:

- Certificate Courses
- Admission and Transfer Requirements
- Graduation Requirements

### **Why Choose a Certificate in Industrial Practices?**

Modern industry relies upon employees with broad backgrounds in manufacturing engineering-related topics, whether they hold the title of "manufacturing engineer" or not. Employee expertise in areas such as standardized work, lean manufacturing, statistical analysis, automation, and plant layout techniques are essential to the success of any industrial company. Students entering the job market with experience in these topics enjoy a competitive advantage in the marketplace. Ferris State University students will want to complete the Industrial Practices Certificate series in order to expand and document their industry-related skillsets beyond those developed from courses just within their majors.

### **Career Opportunities**

Specific populations who would benefit by adding the Industrial Practices Certificate to their list of credentials include:

- The Industrial Practices Certificate enhances process-oriented majors such as welding, plastics, and rubber engineering technology by making the employee less vertically-oriented and more resistant to being "pigeon-holed" in one small area as nothing more than a single-subject matter expert.
- The Industrial Practices Certificate enhances design-oriented majors such as Electrical/Electronics, Mechanical, Automotive, and Product Design Engineering Technology. Companies recognize the advantages of simultaneous engineering when designing products and services, and candidates for design positions who have an understanding of design for manufacturability, industrial operations, and capabilities will enjoy a competitive advantage over those who do not.
- The Industrial Practices Certificate enhances industrial management-oriented majors such as Operations and Supply Management. Industrial managers are responsible for overseeing the activities addressed in the Industrial Practices course set. A manager familiar with concepts beyond just the terminology used will be able to more effectively communicate with the various constituencies involved in industrial operations.

In addition, students in other majors such as Construction Management, Health Care Administration, and Hospitality Management may also benefit from an Industrial Practices Certificate. Traditionally manufacturing-oriented topics such as lean, six sigma, and standardized work find wider applications in non-manufacturing sectors.

## **More Information**

School of Design and Manufacturing

### **Manufacturing Engineering Technology Programs**

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<https://www.ferris.edu/CET/design-mfg/Manufacturing/Industrial-practices-cert.htm>

Ferris State University

### **College of Engineering Technology**

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