

INDUSTRIAL TECHNOLOGY
Certificate

Minimum Credits: 32.0
Contact Hours: 42.75

INTRODUCTION: This program is designed to give students the basis for overall knowledge for employment in entry level positions in industry and manufacturing. Courses will include basic knowledge of electricity, safety, blueprint reading, math, computer, and necessary skills to attain and maintain employment in today's industrial workforce.

GENERAL EDUCATION COURSES

| COURSE | TITLE | CREDITS | CONTACT HOURS |
|---|-------------------|------------|---------------|
| MTH 110 | Technical Math I | 3.0 | 4.0 |
| MTH 112 | Technical Math II | <u>3.0</u> | <u>4.0</u> |
| GENERAL EDUCATION CREDITS/CONTACT HOURS | | 6.0 | 8.0 |

CORE PROGRAM COURSES

| COURSE | TITLE | CREDITS | CONTACT HOURS |
|--|---|-------------|---------------|
| APP 100E | Electrical Studies for Trades ^A | 3.0 | 4.0 |
| APP 104E | AC & DC Fundamentals ^A | 3.0 | 4.0 |
| APP 106M | Industrial Safety ^A | 0.5 | 0.5 |
| CAD 150 | 3D Modeling ^A | 3.0 | 4.0 |
| IND 229 | Hydraulic & Pneumatic Power ^A | 3.0 | 4.0 |
| MET 200 | Material Science ^A | 3.0 | 4.0 |
| MFG 120 | Print Interpretation & Processes ^A | 3.0 | 4.0 |
| MFG 122 | Manufacturing Processes ^A | 3.0 | 3.0 |
| SDE 201 | Job Search Strategies | 1.0 | 1.0 |
| WLD 134 | Introduction to Welding Techniques ^A | 2.0 | 3.0 |
| WLD 135 | Intermediate Welding ^A | <u>1.5</u> | <u>2.25</u> |
| CORE PROGRAM CREDITS/CONTACT HOURS: | | <u>26.0</u> | <u>34.75</u> |
| TOTAL MINIMUM PROGRAM CREDITS/CONTACT HOURS: | | 32.0 | 42.75 |

SUGGESTED SEQUENCING OF COURSES

| YEAR 1 (FALL SEMESTER) <u>14.5</u> CREDITS | | CREDITS | CONTACT HRS | YEAR 1 (SPRING SEMESTER) <u>17.5</u> CREDITS | | CREDITS | CONTACT HRS |
|--|----------------------------------|------------|-------------|--|-------------------------|------------|-------------|
| APP 100E | Electrical Studies for Trades | 3.0 | 4.0 | APP 104E | AC & DC Fundamentals | 3.0 | 4.0 |
| MTH 110 | Technical Math I | 3.0 | 4.0 | MTH 112 | Technical Math II | 3.0 | 4.0 |
| APP 106M | Industrial Safety | 0.5 | 0.5 | MET 200 | Material Science | 3.0 | 4.0 |
| MFG 120 | Print Interpretation & Processes | 3.0 | 4.0 | CAD 150 | 3D Modeling | 3.0 | 4.0 |
| WLD 134 | Intro to Welding Techniques | 2.0 | 3.0 | MFG 122 | Manufacturing Processes | 3.0 | 4.0 |
| IND 229 | Hydraulic & Pneumatic Power | <u>3.0</u> | <u>4.0</u> | SDE 201 | Job Search Strategies | 1.0 | 1.0 |
| TOTAL | | 14.5 | 19.5 | WLD 135 | Intermediate Welding | <u>1.5</u> | <u>2.25</u> |
| | | | | TOTAL | | 17.5 | 23.25 |

NOTES:

^A Included in occupational specialty – GPA of 2.0 or higher must be maintained in the area of occupational specialty.