OVERVIEW
The Industrial Technology program will provide high quality training and develop skills in the area of Industrial Technology. From welding classes to learning about fluid power and electrical systems, the hands-on objectives in this program will have students qualified to enter the workforce. We use only the current and emerging technologies in the industry while training. Our business and industrial partners have helped us with the curriculum to meet the demands of the ever-changing work environment. Students find local jobs with companies such as SIA, Wabash National, Master Guard, Hendrickson and Oerlikon.

TWO-YEAR PROGRAM OPTIONS
ASSOCIATE OF APPLIED SCIENCE
(60 credit hours = 5 semesters)
Two-year Associate of Applied Science degree programs prepare students for careers, career changes and career advancement. Students who need to take longer to complete the degree because of job or family obligations can take the program over a longer period of time. AAS programs can also prepare students to transfer to four-year institutions. These programs offer education in recognized technical areas and specialties with emphasis on analysis, synthesis and evaluation. The program content, which is approximately 30 percent general education, and 70 percent professional/technical, provides depth and breadth in conceptual and professional/technical skills. The general education courses equip students with the problem solving, communications, scientific and mathematical skills to compete successfully in the job market. Professional/technical courses equip students with the skills to obtain employment and to advance in the workforce.

ONE-YEAR PROGRAM OPTIONS
CERTIFICATES OFFERED
Industrial Electrical (21 credit hours = 2 semesters)
Industrial Mechanical (21 hours = 2 semesters)
Welding Technology (21 credit hours = 2 semesters)
Quality Assurance Technology (21 credit hours = 2 semesters)

TECHNICAL CERTIFICATES OFFERED
Industrial Electrical (34 credit hours = 3 semesters)
Industrial Mechanical (34 hours = 3 semesters)
Welding Technology (34 credit hours = 2-3 semesters)
Quality Assurance Technology (34 credit hours = 2-3 semesters)

EARN MORE AND IMPROVE YOUR SKILLS
If you want a good-paying job, you need to invest in your education. With an associate degree from Ivy Tech Community College, you’ll earn an average $8,000 more each year than you would with just a high school diploma. Over the course of your career, this has a tremendous impact on your earning power—a difference of up to $400,000. As a result, you’ll have the chance to explore opportunities that are well worth the time you’ll spend in class. Get started today. Call 888-IVY-LINE (888-489-5463 or visit IvyTech.edu/new-students.

MANUFACTURING-LAB
Ivy Tech’s large industrial work-space provides a setting for hands on training in automation, robotics, and electrical and mechanical systems. The skill set gained from this equipment prepares students for Indiana’s future employment needs in engineering and manufacturing.

DUAL CREDIT COURSES

<table>
<thead>
<tr>
<th>High School Course(s)</th>
<th>Ivy Tech Course(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOE #5608 Adv. Manufacturing I</td>
<td>ADMF 101 - Key Principles of Manufacturing</td>
</tr>
<tr>
<td>DOE #5608/S610 Adv. Manufacturing I or Indust. Automation &amp; Robotics I</td>
<td>ADMF 112 - Automation Mechatronics Mechanical Systems</td>
</tr>
<tr>
<td>DOE #5684, #4830, #5610, or #5616- Electronics and Computer Tech. I or Construction Trades: Elec. or Industrial Automation and Robotics I or Energy Industry I</td>
<td>INDT 113 - Basic Electricity ADMF 102 - Technology in Advanced Manufacturing ADMI 122 - Mechatronics - Electrical &amp; Robotics Systems</td>
</tr>
<tr>
<td>DOE #5776- Welding Technology I</td>
<td>WELD 100 - Welding Processes</td>
</tr>
<tr>
<td>DOE #5776-Welding Technology I</td>
<td>WELD 108 - Shielded Metal Arc Welding I</td>
</tr>
<tr>
<td>DOE #5776-Welding Technology II</td>
<td>WELD 206 - Shielded Metal Arc Welding II</td>
</tr>
<tr>
<td>DOE #5778-Welding Technology II</td>
<td>WELD 207 - Gas Metal Arc Welding</td>
</tr>
</tbody>
</table>

FOR MORE INFORMATION:
Kevin Sweeney
Program Chair
Office: 765-269-5184
ksweeney12@ivytech.edu
Griffin Hall-Room GH 178H

IF YOU’VE GOT QUESTIONS, WE’VE GOT ANSWERS.
FOR MORE INFORMATION:
School of Advanced Manufacturing, Engineering and Applied Science
765.269.5229
The following suggested regional sequence includes all course requirements for this degree. You must consult with an academic advisor to determine which electives best meet your career goals.

### ASSOCIATE OF APPLIED SCIENCE

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>XXXX XXX</td>
<td>AART Technical Certificate Courses</td>
<td>34</td>
</tr>
<tr>
<td>XXXX XXX</td>
<td>Quality Assurance Technical Certificate Courses</td>
<td>34</td>
</tr>
<tr>
<td>XXXX XXX</td>
<td>Industrial Electrical Technical Certificate Courses</td>
<td>34</td>
</tr>
<tr>
<td>XXXX XXX</td>
<td>Industrial Mechanical Technical Certificate Courses</td>
<td>34</td>
</tr>
<tr>
<td>XXXX XXX</td>
<td>Welding Technology/technical Certificate Courses</td>
<td>34</td>
</tr>
</tbody>
</table>

#### Semester 1
- ADMF 106 Supervision & Teams at Work 3
- ENGL 111 English Composition 3
- XXXX XXX Industrial Technology Statewide Elective 3
- Select 1 of the following courses:
  - INDT 280 Co-Op/Internship 3
  - XXXX XXX Industrial Technology Statewide Elective 3
- INDT 260 Projects in Manufacturing 3
- INDT 279 Industrial Technology Capstone 1
- XXXX XXX Industrial Technology Statewide Elective 3
- XXXX XXX Humanities/Social & Behavioral Sciences Elect. 3
- Select 1 of the following courses:
  - PHYS 100 Introductory Physics 4
  - SCIN 101 Science of Traditional & Alternative Energy 4

**Total: 60**

### TECHNICAL CERTIFICATE - Industrial Electrical Concentration

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADMF 101</td>
<td>Key Principles of Advanced Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>ADMF 102</td>
<td>Technology in Advanced Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>ADMF 122</td>
<td>Automation-Mechatronics Electrical/ Robotic Sys.</td>
<td>3</td>
</tr>
<tr>
<td>INDT 113</td>
<td>Basic Electricity</td>
<td>3</td>
</tr>
<tr>
<td>IVYT 113</td>
<td>Student Success in Technology</td>
<td>1</td>
</tr>
</tbody>
</table>

#### Semester 2
- INDT 112 Motor & Motor Controls 3
- INDT 104 Fluid Power Basics 3
- INDT 125 Industrial Wiring Principles 3
- INDT 204 Electrical Circuits 3
- MATH 122 Applied Technical Mathematics 3
- COMM 104 Workplace Communication 3
- MTTC 101 Introduction to Machining 3

**Total: 34**

### TECHNICAL CERTIFICATE - Industrial Mechanical Concentration

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADMF 101</td>
<td>Key Principles of Advanced Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>ADMF 102</td>
<td>Technology in Advanced Manufacturing</td>
<td>3</td>
</tr>
<tr>
<td>INDT 113</td>
<td>Introductory Welding</td>
<td>3</td>
</tr>
<tr>
<td>INDT 203</td>
<td>Machine Maintenance &amp; Installation</td>
<td>3</td>
</tr>
<tr>
<td>MATH 122</td>
<td>Applied Technical Mathematics</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Semester 2
- ADMF 112 Automation-Mechatronics Mechanical Systems 3
- ADMF 122 Automation-Mechatronics Pressurized Systems 3
- INDT 104 Fluid Power Basics 3
- INDT 203 Machine Maintenance & Installation 3
- MATH 122 Applied Technical Mathematics 3
- COMM 104 Workplace Communication 3
- MTTC 101 Introduction to Machining 3

**Total: 34**

### TECHNICAL CERTIFICATE-Welding Concentration

<table>
<thead>
<tr>
<th>Course #</th>
<th>Title</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>IVYT 113</td>
<td>Student Success in Technology</td>
<td>1</td>
</tr>
<tr>
<td>WELD 100</td>
<td>Shielded Metal Arc Welding I</td>
<td>3</td>
</tr>
<tr>
<td>WELD 206</td>
<td>Shielded Metal Arc Welding II</td>
<td>3</td>
</tr>
</tbody>
</table>

#### Semester 2
- MATH 122 Applied Technical Mathematics 3
- WELD 203 Pipe Welding I 3
- WELD 210 Welding Fabrication I 3

**Total: 34**

Ready to get started? **APPLY NOW FOR FREE** at IvyTech.edu/applynow

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**Symbol Key**
- ^ Capstone Course
- S 1st 8 weeks
- T 2nd 8 weeks

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