

INDUSTRIAL TECHNOLOGY (INDT)

IvyTech.edu/industrial-technology

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

High School Course(s)

DOE #5608 Adv. Manufacturing I

DOE #5608/5610 Adv. Manufacturing I or Industr. Automation & Robotics I

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

DOE # 5776- Welding Technology I

DOE # 5776-Welding Technology I

DOE # 5776-Welding Technology I

DOE # 5778-Welding Technology II

Ivy Tech Course(s)

ADMF 101- Key Principles of Manufacturing

ADMF 112- Automation Mechatronics Mechanical Systems

INDT 113- Basic Electricity
ADMF 102- Technology in Advanced Manufacturing
ADMF 122- Mechatronics- Electrical & Robotics Systems

WELD 100- Welding Processes

WELD 108- Shielded Metal Arc Welding I

WELD 206- Shielded Metal Arc Welding II

WELD 207- Gas Metal Arc Welding

FOR MORE INFORMATION:

Kevin Sweeney

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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



Ivy Tech Community College-Lafayette

Industrial Technology

2018-2019

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

Course #	Title	Credit Hours
Semester 0		
XXXX XXX	AART Technical Certificate Courses	34
XXXX XXX	Quality Assurance Technical Certificate Courses	34
XXXX XXX	Industrial Electrical Technical Certificate Courses	34
XXXX XXX	Industrial Mechanical Technical Certificate Courses	34
XXXX XXX	Welding Technology Technical Certificate Courses	34

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

Semester 2		
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

Course #	Title	Credit Hours
Semester 1		
S ADMF 101	Key Principles of Advanced Manufacturing	3
T ADMF 102	Technology in Advanced Manufacturing	3
T ADMF 122	Automation-Mechatronics Electrical/ Robotic Sys.	3
S INDT 113	Basic Electricity	3
S IVYT 113	Student Success in Technology	1

Semester 2		
S INDT 103	Motor & Motor Controls	3
S INDT 104	Fluid Power Basics	3
T INDT 125	Industrial Wiring Principles	3
T INDT 204	Electrical Circuits	3
MATH 122	Applied Technical Mathematics	3

Semester 3		
COMM 104	Workplace Communication	3
INDT 205	Programmable Controllers I	3

Total: 34

TECHNICAL CERTIFICATE- Industrial Mechanical Concentration

Course #	Title	Credit Hours
Semester 1		
S ADMF 101	Key Principles of Advanced Manufacturing	3
T ADMF 102	Technology in Advanced Manufacturing	3
S INDT 113	Basic Electricity	3
T INDT 114	Introductory Welding	3
S IVYT 113	Student Success in Technology	1

Semester 2		
T ADMF 112	Automation-Mechatronics Mechanical Systems	3
T ADMF 122	Automation-Mechatronics Pressurized Systems	3
S INDT 104	Fluid Power Basics	3
S INDT 203	Machine Maintenance & Installation	3
MATH 122	Applied Technical Mathematics	3

Semester 3		
COMM 104	Workplace Communication	3
MTTC 101	Introduction to Machining	3

Total: 34

TECHNICAL CERTIFICATE-Welding Concentration

Course #	Title	Credit Hours
Semester 1		
S IVYT 113	Student Success in Technology	1
WELD 100	Welding Processes	3
S WELD 108	Shielded Metal Arc Welding I	3
T WELD 206	Shielded Metal Arc Welding II	3

Semester 2		
MATH 122	Applied Technical Mathematics	3
S WELD 207	Gas Metal Arc (MIG) Welding	3
S WELD 208	Gas Tungsten Arc (TIG) Welding	3
T WELD 272	Gas Metal (MIG) Welding II	3
T WELD 273	Gas Tungsten Arc Welding II	3

Semester 3		
COMM 104	Workplace Communication	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

Symbol Key

^ Capstone Course

S 1st 8 weeks

T 2nd 8 weeks

Our online application is FREE.
Why wait? Apply today! IvyTech.edu/applynow

