The Industrial Technology program is designed to prepare you for the modern industrial environment. In world class manufacturing facilities, CNC machines and automated equipment fabricate industrial and consumer products. Working in the modern manufacturing facility requires highly specialized skills in industrial maintenance, welding, and HVAC.

**HEATING, VENTILATION AND AIR CONDITIONING**
This concentration will prepare you to install and repair heating, air conditioning, refrigeration, and ventilation systems.

**INDUSTRIAL ELECTRICIAN (certificate only)**
Leads to employment, taking the National Electrical Code certification exam, and/or completing an AAS degree in Industrial Technology.

**MAINTENANCE**
This concentration will provide you with a broad range of skills applicable to a variety of jobs in the industrial environment. You will be prepared to install, repair, maintain, and troubleshoot industrial machinery and equipment such as pumps, motors, PLC technology, pneumatic and hydraulic systems, industrial robotics, and production machinery.

**MACHINE TOOL (certificate only)**
Leads to employment, taking a NIMS Machining Level I certification exam and/or completing an AAS degree in Industrial Technology.

**POWER PLANT**
Ivy Tech's Power Plant concentration helps you learn how modern power plants operate and obtain the skills you need for a career in this field. Instruction includes the technical and safety aspects of plant and facility operations.

**WELDING (certificate only)**
Leads to employment, taking the certification exam in Shielded Metal Arc, GTAW (Gas Tungsten Arc Welding), GMAW (Gas Metal Arc Welding) and other welding processes and/or completing an AAS degree in Industrial Technology.

**WELDING**
This concentration is designed for you if you are interested in learning welding or upgrading your skills in the various processes. Novices and advanced-level students can benefit from the individualized competency-based program offered. This concentration offers a variety of skill levels in oxyacetylene, arc, MIG, TIG, and welding/cutting processes, using both manual and semi-automatic applications.
## ASSOCIATE OF APPLIED SCIENCE
62-64 Credit Hours

### FIRST YEAR
**Fall Semester**
- INDT 102 Introduction to Print Reading
- INDT 104 Fluid Power Basics
- INDT 106 Introduction to the Workplace and Safety
- INDT 113 Basic Electricity
- IVYT 1XX Life Skills Elective
- MATH 121 Geometry/Trigonometry

### Spring Semester
- INDT 103 Motors and Motor Controls
- INDT 203 Machine Maintenance & Installation
- TECH 104 Computer Fundamentals for Technology
- ENGL 111 English Composition
- Elective Math/Science

### SECOND YEAR
**Fall Semester**
- INDT 114 Introduction to Welding
- INDT 205 Programmable Controllers I
- COMM 101 Fundamentals of Public Speaking
- PHYS 101 Physics I
- Elective Technical Elective

### Spring Semester
- INDT 103 Motors and Motor Controls
- INDT 203 Machine Maintenance & Installation
- TECH 104 Computer Fundamentals for Technology
- ENGL 111 English Composition
- Elective Math/Science

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**Program Advisor:** Don Merle  
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**Email:** dmerle@ivytech.edu

To learn more about employment and salary information for careers in this field, visit the U.S. Department of Labor's Bureau of Labor Statistics website at bls.gov and the official career site of the State of Indiana, indianacareerconnect.com.

Ivy Tech Community College is accredited by North Central Association of Colleges and Schools.