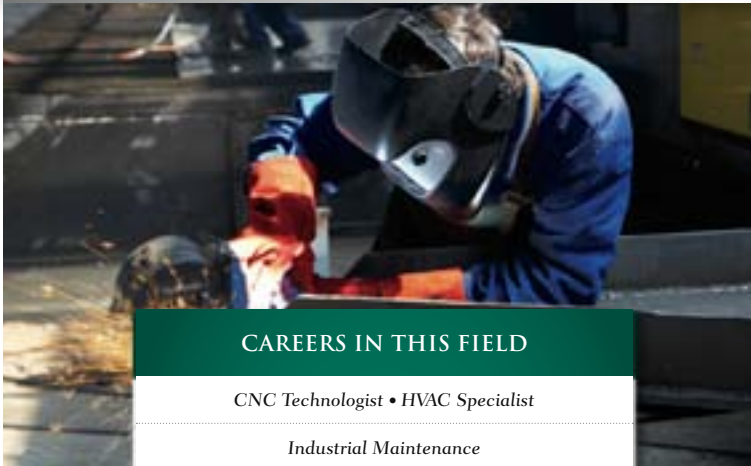


INDUSTRIAL TECHNOLOGY



CAREERS IN THIS FIELD
CNC Technologist • HVAC Specialist
Industrial Maintenance
Industrial Technologist • Machinist
Quality Manager • Welding

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.

CONCENTRATIONS IN THIS PROGRAM

FLUID POWER (certificate only)

Leads to employment in manufacturing or industrial related fields, completion of an AAS degree in Manufacturing and Industrial Technology, and /or taking the National Fluid Power certification exam.

HEATING AND AIR CONDITIONING (certificate only)

Leads to employment, taking an Environmental Protection Agency certification exam, and/or completing an AAS degree in Industrial Technology.

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.

Certificates are available in MSSC and LEED (Leadership in Energy and Environmental Design).

ASSOCIATE OF APPLIED SCIENCE (AAS) DEGREE

Two-year Associate of Applied Science degree programs prepare students for careers, career changes and career advancement. AAS programs may also prepare students for transfer to four-year institutions. The program content, which is approximately 30 percent general education, provides depth and breadth in conceptual and professional/technical skills. Professional/technical courses equip students with the skills to obtain employment and to advance in the workforce.

ASSOCIATE OF SCIENCE (AS) DEGREE

Two-year Associate of Science programs typically contain 40 percent or more general education, with the balance in technical and profession courses. The coursework provides students with a foundation for transfer to a related baccalaureate program at a four-year institution, and equips students with skills for the job market.

CERTIFICATE (C)

Certificates are sequences of technical and professional courses. They provide access to targeted, short-term workforce training, and completers may sit for specific certification exams. Certificate programs generally take less than one year to complete.

TECHNICAL CERTIFICATE (TC)

One-year Technical Certificate programs provide education in conceptual and technical skills for specific occupations. Each program contains a sequence of required courses in a recognized concentration within a program.

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.

Not all concentrations are offered at all campuses. Please contact your local Ivy Tech Community College campus for more information.



CONCENTRATIONS IN THIS PROGRAM (CONT.)

MACHINING

Today's industries rely on trained and skilled machinists, machine operators, and manufacturers to produce precision components for everything from household appliances to aircraft parts. With training that includes computer numerical controlled (CNC) operation and programming, as well as robotics and computer-aided design (CAD) systems, you'll be prepared for a machine tool-related career.

MACHINE TOOL (certificate only)

Leads to employment, taking a NIMS Machining Level I certification exam and/or completing an AAS degree in Industrial Technology.

PROCESS OPERATIONS

Process control is a statistics and engineering discipline that deals with architecture mechanisms for controlling the output of a specific process. Heating up the temperature in a room and controlling air conditioning are process controls. This concentration will make you aware of process control systems in practice and they will become familiar with sure applications as discrete, batch and continuous.

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.

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.

WORKFORCE & ECONOMIC DEVELOPMENT

Certifications and Skills Development Opportunities

For those who need to upgrade their work-related skills, Ivy Tech offers a host of courses through our Workforce and Economic Development department. You can brush up on your skills, receive training in computer programs or receive certifications. For more information on programs offered through WED, contact Luisa Bascur, Director Workforce & Economic Development at (812) 246-3301 ext. 4704 or e-mail her at lbascur@ivytech.edu.

MSSC certification: Ivy Tech offers training for those who want to become a Certified Production Technician. The certification is applicable to all sectors of manufacturing and can help workers become prepared for the manufacturing jobs of the future.

LEED certification: LEED (Leadership in Energy and Environmental Design) is the newest technology in building design as architects, consumers and builders work to create structures that respect the world around them and use as little resources as possible. LEED certification for individuals, indicating they have advanced knowledge of green building techniques, is available from Ivy Tech and offered periodically throughout the year.

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