

Adult Education GED+ Framework

Health Care Sector

338,877 jobs; 13.1% of total jobs

8175 health care-related jobs on ICC

Occupation	Avg Wages	Indiana Outlook LT / ST*	Certification	Career Pathway	Avg. Instruct Hrs.	Rationale/Notes	Cost of Cert Exam	Prior Learning Credits at Ivy Tech**	Related Skills and Competencies
Certified Nurse Aid	\$23,221	20.4% /3.5%	Approved State Certification	LPN to ASN to Registered Nurse to BSN	105 hrs	Although wage is not high, the demand and opportunity for pathways is strong.	\$75 Skills and Written	HLHS 107 CNA Preparation	<ul style="list-style-type: none"> Attend to patient needs including grooming, applying dressings, and turning bedridden patients. Collect specimens. Record patient vital signs Observe and record food and drink intake and output.
Pharmacy Technician	\$26,726	28.0% /3.7%	Certified Pharmacy Technician (CPhT)	Medical Assistant or EKG Technician	400 hrs	Not a traditional pathway, but can lead to other technical degrees, such as EKG technician.	\$129 PTCE; \$105 (EXCPT)	PHAR 101 Pharm Tech I; PHAR 201 Pharm Tech II; PHAR 202 Pharmacy Technician Experiential Seminar	<ul style="list-style-type: none"> Receive prescription requests and confirm that information is complete and accurate. Maintain proper storage of medicines. Prepare bulk medicines. Prepare and affix labels. Assist customers in checking out

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Emergency Medical Technician	\$28,538	8.6%/1.1%	State Certification	to EMT Intermediate to Paramedic to LPN	Approx. 150 hrs	EMT Basic, Intermediary and Paramedic (associate degree) is a clear pathway. EMT Basic requires both classroom and practical experience.	\$15	PARM 102 Emergency Medical Technician-Basic Training	<ul style="list-style-type: none"> • Administer first aid and life support. • Perform emergency diagnosis and treat • Observe, record and report the patient's condition
Medical Coder	\$29,000	20.5%/3.0%	American Academy of Professional Coders - Certified Professional Coder (CPC)	To AHIMA Certified Coding Specialist (CCS) to Registered Health Info Tech (RHIT) to Registered Health Info Administrator (RHIA)	Not specified	The CPC is not required by the industry currently, however many major employers require it. The CPC will qualify individuals for coding in a physician's office.	\$300	MEAS 137 Medical Insurance & Basic Coding w/ Computer Applications	<ul style="list-style-type: none"> • Proficiency in adjudicating claims for accurate medical coding • Proficiency across a wide range of coding services • Sound knowledge of medical coding rules and regulations

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Information Technology Sector

34,867 jobs; 1.3% of total jobs

2048 IT-related jobs on ICC

Occupation	Avg Wages	Indiana Outlook LT / ST*	Certification	Career Pathway	Avg. Instruct Hrs	Rationale/Notes	Cost of Cert Exam	Prior Learning Credits at Ivy Tech**	Related Skills and Competencies
Computer Support Specialist	\$38,200	7.7% / 2.7%	COMP TIA A+	Network systems and communication analyst to network administrator to IT consultant	100+ hrs.	Depending on the exam, the level of knowledge varies greatly. A+ is 8th grade.	\$168	CINT 210 PC Technology Essentials; (requires passing A+ PC Essentials exam) CINT 211 IT Technician (requires passing A+ IT Technician exam)	<ul style="list-style-type: none"> • Install and perform minor repairs to computer hardware, software, and other equipment • Technical knowledge of computer networking and security
Electronics Installers/Repairers	\$40,000	14.0%/ 5.8%	Electronics Systems Professional Alliance (ESPA) Electronic Systems Technician (EST)	Supervisor or Manager	Not specified	ESPA provides multiple levels of certification.	\$250 - \$350	N/A	<ul style="list-style-type: none"> • Disassemble entertainment equipment and repair or replace defective components and wiring • Install, service, and repair electronic equipment or instruments • Calibrate and test equipment

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Business Administrative & Support, Finance & Insurance Sectors

216,433 jobs; 8.4% of total jobs

3274 administrative-related jobs on ICC

Occupation	Avg Wages	Indiana Outlook LT / ST*	Certification	Career Pathway	Avg. Instruct Hrs	Rationale/Notes	Cost of Cert Exam	Prior Learning Credits at Ivy Tech**	Related Skills and Competencies
Bookkeeper	\$31,000	8.7% / 2.5%	American Institute of Professional Bookkeeping (AIPB) Bookkeeper	Payroll clerk to tax preparer to brokerage clerk	Not specified	requires 2 years of experience before or after exam; testing centers in Merrillville, Mishawaka, Indianapolis, Terre Haute, and Evansville; AIPB has self-study workbooks and practice exams available	\$260	ACCT 101 Financial Accounting I; ACCT 106 Payroll Accounting	<ul style="list-style-type: none"> • Adjusting entries • Error correction and reconciliation • Payroll • Depreciation • Inventory • Internal control and fraud prevention
Tax Preparer	\$29,677	3.0% / 3.1%	IRS Certification	Advanced tax preparer to brokerage clerk	84 hrs	Has consistent growth and different levels. IRS has standardized the certification required for all tax preparers.	\$64.25		<ul style="list-style-type: none"> • Compute taxes owed or overpaid • Prepare simple to complex tax forms • Review financial records to determine required forms
Admin. Assistant	\$28,985	3.0% / 1.6%	Internet and Computing Core Certification (IC3)	Executive assistant to office manager	70 hrs	IC3 includes knowledge of hardware, software, and Microsoft Office programs. Potential to focus on medical secretary.	\$159	Not available at this time.	<ul style="list-style-type: none"> • Prepare memos, letters, reports and other documents using word processing, spreadsheets, and other computer software

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Advanced Manufacturing Sector

436,056 jobs; 16.8% of total jobs

1,174 manufacturing-related jobs in ICC

Occupation	Avg Wages	Indiana Outlook LT / ST*	Certification	Career Pathway	Avg. Instruct Hrs	Rationale/Notes	Cost of Cert Exam	Prior Learning Credits at Ivy Tech**	Related Skills and Competencies
Production Worker	\$36,000	4.6% / 7.1%	Manufacturing Skills Standards Council (MSSC) – Certified Production Technician	Manufacturing Engineering Technician to Technologist to supervisor or manager	140 hrs	MSSC is not recognized throughout the State, but the skills are relevant	\$280	ADMF 101 Key Principles of Advanced Manufacturing AND ADMF 102 Technology in Advanced Manufacturing	<ul style="list-style-type: none"> • Safety • Manufacturing processes and production • Quality control • Measurements
Entry Welder	\$31,000	-2.7% / 2.4%	American Welding Society (AWS) – Sense Certification	Welding technician to welding technologist or specialist	80 hrs	AWS offers multiple levels of credentials; testing facilities in Fort Wayne, Indianapolis, Evansville, South Bend and Lafayette	\$50	WELD 209 Welding Certification	<ul style="list-style-type: none"> • Safely operate welding tools • Layout, position, measure, cut and align pieces
CNC Operator	\$31,000	7.3% / 4.0%	National Institute for Metalworking Skills (NIMS) – CNC Operator Level 1	CNC Programmer	120 hrs	NIMS offers multiple levels of credentials	\$90	Not available at this time.	<ul style="list-style-type: none"> • Measurement & Materials • Job Planning, Benchwork & Layout • Manual Milling Skills • CNC Milling • CNC Turning

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Transportation and Logistics, Wholesale Trade Sectors

197,929 jobs; 7.7% of total jobs

3877 TDL-related jobs on ICC

Occupation	Avg Wages	Indiana Outlook LT / ST*	Certification	Career Pathway	Avg. Instruct Hrs	Rationale/Notes	Cost of Cert Exam	Prior Learning Credits at Ivy Tech**	Related Skills and Competencies
Truck Driver, Heavy and Tractor-Trailer	\$37,588	15.4% / 6.3%	Class A CDL	Supervisor, Manager	150 hrs	High short term and long term demand.	\$16 permit fee, \$30 license fee	N/A	<ul style="list-style-type: none"> • Operate a large truck • Obey all traffic laws and regulations
Laborers and Material Movers	\$23,382	.2% / 4.1%	Manufacturing Skills Standards Council (MSSC) Certified Logistics Associate (CLA)	Material Handling, Shipping & Receiving to First Line Supervisor or Manager of Helpers	40 hrs	Cert. Ladder: to Certified Logistics Technician (CLT)	\$115 - \$170	N/A	<ul style="list-style-type: none"> • Use the computer systems and software for supply chain management • Understand supply chain management and quality control
Automotive Service Technician (Diesel Tech/Hybrid Tech)	\$22,000	2.5% / 0.0%	Automotive Service Excellence (ASE) Certification	to Automotive Specialty Technician to Automotive Master Technician	Not specified	Some concerns about demand, but easy to build pathway. Indiana test centers located throughout Indiana. Requires two years of experience before or after certification exam.	\$75	AUTC credits apply depending on the ASE exams passed	<ul style="list-style-type: none"> • Diagnose problems or trouble with vehicle • Provide basic service for vehicle • Make many repairs

* Short-term (2010-2012) and long-term (2008-2018) projections were provided by DWD's Research and Analysis team. The timeframes are set by USDOL Education and Training Administration.

** Prior learning credit is awarded at the discretion of Ivy Tech Community College. If a student has the current certification and is admitted into the related degree program at Ivy Tech, the student may be eligible to receive credit in the course(s) listed.