



Indiana Workforce 2.0

A Proposed Partnership

Advancements in manufacturing technologies and processes require a workforce capable of applying these innovations to compete in the 21st century. Already a leader in advanced manufacturing, Indiana is positioned to continue to serve the needs of advanced manufacturing employers. Indiana Workforce 2.0 is designed to match employee skills with the current workforce requirements of manufacturers. Combining our wealth of experience with a new generation of materials, technologies, and processes will develop a workforce that can truly realize its full potential and not only utilize cutting edge technology, but also create it.

The key to meeting this challenge is a partnership that serves the needs of employers, increases accessibility, and removes barriers to entry for the workforce. The proposed partnership, therefore, would include Ivy Tech Corporate College, the Indiana Economic Development Corporation, and private employers. Through this partnership, current and potential em-

ployees will be identified for enrollment in Ivy Tech courses that are best suited to address an employer's need. The student's tuition and fees will be jointly supported by the State of Indiana and the private employer. This is a fully forgivable loan, with the student bearing no obligation to reimburse the employer so long as he or she commits to remaining in the service of the employer for a specified amount of time (duration to vary based upon certification/academic track identified by the employer). Ivy Tech will receive payment contingent on the performance (as determined by completion rates) of students in academic or certification courses.

Staying ahead of the technology curve is what Indiana Workforce 2.0 is all about. By combining our resources from the public and private sectors with our already world-class colleges and universities, Indiana has already taken the necessary steps to ensure our place as a leader in 21st century innovation and advanced manufacturing.





Partnership Components



IEDC will provide...

- Support for half of each student's tuition and fees
- Metrics for program outcomes
- Marketing assistance to create awareness/acceptance among employers

Private employers will provide...

- Selection of employees/students for enrollment in program
- Support for half of each student's tuition and fees
- Work schedule that accommodates educational goals of a student
- Regular work, upon completion, as stipulated in agreement to fund tuition and fees



Ivy Tech Corporate College will provide...

- Assistance in screening students for acceptance in program
- Assistance in selecting/designing appropriate education programs that meet the needs of employers
- Delivery of selected programming in a time/manner that accommodates the student and employer
- Student support from enrollment through completion
- Regular reporting of student progress to employer/IEDC

Students will provide...

- A desire to learn and an eagerness to have a productive, fulfilling career
- Repayment of the loan if they do not complete the program or do not work for the sponsoring employer for the time period specified by the agreement

Proposed Certification Programs

Manufacturing Operations (18 credits)

Upon completion leads to taking the MSSC Certified Production Technician certification exam and/or Green Manufacturing Certification Level I certification exam, employment and/or completion of an associate degree. **Cost of program (including books, fees, and cost of certification exam): \$3,600**

Mechatronics Certification Level I (18 credits)

Upon completion leads to taking the MSSC Certified Production Technician Certification exam, and/or Siemens Mechatronics Level I certification exam, employment and/or completion of an associate degree. **Cost of program (including books, fees, and cost of certification exam): \$3,600**

AWS (American Welding Society) (16-180 hours)

American Welding Society (AWS) courses and certifications are available for a wide range of welding topics and welding positions. Time spent on the certification course work may vary depending upon experience and expertise prior to the course. Through this program, Corporate College will work with individual employers to determine the best

course fit to meet their specific needs. **Cost of program (including books, fees, and cost of certification exam): \$200-\$5,300**

MSSC Certified Production Technician (140 hours)

The MSSC Certified Production Technician certification is the nationally recognized certification supported by the National Association of Manufacturers. The training will enable workers to build the core knowledge and skills required in modern advanced manufacturing. This course will validate with the certification the worker's technical, academic and employability skills needed in the modern manufacturing environment. The four modules comprising the course are Safety, Maintenance Awareness, Quality and Continuous Improvement, Manufacturing Process and Production. The Certified Production Technician certification is awarded to those that successfully pass each of the four component examinations. **Cost of program (including books, fees, and cost of certification exam): \$3,150**

Proposed Certification Programs

MSSC Certified Logistics Associate (40 hours)

There is a foundational-level knowledge and skills that front-line workers in supply chain logistics should understand. To remain competitive, logistics-related companies increasingly need a flexible, knowledgeable, problem-solving workforce. This means workers that can keep pace with rapid changes in technology and processes, be easily trainable and work in a global environment. These workers must also be competent in the critical work activities common across all facilities within the supply chain: safety, quality control, communications, teamwork, good workplace conduct and familiarity with the key computer systems that underpin supply chain operations. In 2008, logistics industry subject matter experts identified skills standards for two levels of certification. The first is the Certified Logistics Associate (CLA), based upon the individual's command of the foundational knowledge and skills. **Cost of program (including books, fees, and cost of certification exam): \$1,495**

MSSC Certified Logistics Technician (40 hours)

The Certified Logistics Technician (CLT) program recognizes through certification individuals who demonstrate mastery of the core competencies of material handling at the front-line (entry-level through front-line supervisor) through successful completion of the certification assessments. The CLT program consists of two parts: The foundational-level Certified Logistics Associate (CLA) Certificate and the mid-level technical CLT Certification. Before sitting for the CLT assessment, candidates must have a CLA Certificate. **Cost of program (including books, fees, and cost of certification exam): \$1,495**

NIMS CNC MILLING I (140-160 hours)

This course covers basic skills for safe and proper set-up, operation, preparation and programming of CNC milling centers. This course utilizes industry standard tooling and equipment, and culminates with a nationally recognized certification part and test. The NIMS Level I CNC Milling I Certification is a skills document verified and recognized by industry professionals. **Cost of program (including books, fees, and cost of certification exam): \$3,700**

NIMS CNC Operator (300 hours)

Introduces the basic principles and practices of CNC machine operation used in manufacturing environments. The course will cover all aspects of safe and proper use of tooling, fixtures, and precision measurement devices with respect to CNC Parts and CNC machining centers. This course will use lecture, lab, online simulation and programming, testing, and a formal Credentialing Achievement Record to prepare students for NIMS CNC Operator Certification Level 1. **Cost of program (including books, fees, and cost of certification exam): \$4,100**

Certified Quality Improvement Associate (CQIA) (40 hours)

The CQIA prep class covers quality problem solving, inspection plans, inspection and work instructions, sampling plans, audits, quality costs, and basic fundamental statistics and methods for statistical process control. The cost of the class includes books and materials. ASQ has an additional \$435 fee for the exam. **Cost of program (including books, fees, and cost of certification exam): \$1,025**

Certified Six Sigma Green Belt (CSSGB) (160 hours)

The CSSGB prep class covers team leadership and team dynamics, and team member assignments of roles and responsibilities. Green Belts will understand all aspects of the DMAIC model in accordance with Six Sigma principles. **Cost of program (including books, fees, and cost of certification exam): \$3,250**

APICS Certified Supply Chain Professional (180 hours)

APICS Certifications are professional designations of the highest regard offered through the exclusive partnership of the Association for Operations Management and their Central Indiana Chapter. The CSCP credential is an internationally recognized certification for supply chain excellence. The CSCP was designed to provide a solid foundation to professionals and managers working in supply chain related fields. In contrast with the CPIM, which is focused inside a firm providing depth within specific topics primarily in manufacturing environments, the CSCP is focused outside the firm providing breadth across many topics beyond manufacturing. This class covers all four of the domains of knowledge contained in the CSCP. **Cost of program (including books, fees, and cost of certification exam): \$1,850**

APICS: Certification In Production and Inventory Management (180 hours)

CPIM provides a common basis for individuals and organizations to evaluate their knowledge in the evolving field of inventory management. The body of knowledge contained in this certification has helped individuals and their organizations become more productive and competitive because it is designed to test candidates' in-depth knowledge in a variety of subjects specific to production and inventory management. The major requirement for earning the CPIM is passing the exams of the five modules that define the CPIM: Basics of Supply Chain Management, Master Planning of Resources, Detailed Scheduling and Planning, Execution and Control of Operations, and Strategic Management of Resources. **Cost of program (including books, fees, and cost of certification exam): \$3,600**

