

Proposal for PACT Eligibility for Workforce and Continuing Education (CE)

Allied Health Programs

1. NURS 0500 Certified Nurse Aide (CNA)

6/1/2025 Cost: \$1,799 *Textbooks and Exam included

Course Description: The CNA program equips students with the skills necessary to provide basic nursing care in various healthcare settings. The curriculum includes classroom instruction, laboratory practice, and clinical experiences, covering topics such as patient hygiene, vital signs monitoring, and mobility assistance.

Accrediting Body: The program aligns with the Connecticut Department of Public Health regulations and prepares students for state certification as a Nurse Aide.

CT DOL Data: According to the Connecticut Department of Labor, nursing assistants earn an average annual wage of approximately \$34,000. www1.ctdol.state.ct.us

Opportunities for Growth: CNAs can advance their careers by pursuing further education to become Licensed Practical Nurses (LPNs) or Registered Nurses (RNs).

2. CSPT 0500 Central Sterile Processing Technician

6/1/2025 Cost: \$1,800 * Textbooks and Exam additional cost

Course Description: This program trains students in the sterilization and preparation of medical instruments and equipment. Coursework includes infection control, decontamination procedures, and inventory management.

Accrediting Body: Graduates are prepared to take the certification exam administered by C.S.P.D.T Certification Exam.

CT DOL Data: The Connecticut Department of Labor reports that medical equipment preparers, including sterile processing technicians, have an average annual wage of around \$38,000. www1.ctdol.state.ct.us

Opportunities for Growth: Technicians can advance to supervisory roles or specialize in areas like endoscopy or surgical instrument management. Opportunities for students to move to Surgical Technician Programs.

3. PHLB 0500 Phlebotomy Technician

6/1/2025 Cost: \$2,249 * Textbooks and Exam additional cost

Course Description: The Phlebotomy Technician program provides training in blood collection techniques, specimen handling, and patient interaction. The program includes both classroom instruction and clinical practice.

Accrediting Body: The program prepares students for national certification exams, such as those offered by the National Healthcareer Association (NHA) or the National Center of Competency Testing (NCCT).

CT DOL Data: Phlebotomists in Connecticut earn an average annual wage of approximately \$37,000. www1.ctdol.state.ct.us

Opportunities for Growth: Phlebotomists can pursue additional certifications or training to become medical laboratory technicians or technologists.

4. PHRM 0500 Pharmacy Technician

6/1/2025 Cost: \$1,800 * Textbooks and Exam additional cost

Course Description: This program prepares students to assist pharmacists in dispensing medications, managing inventory, and providing customer service. Topics include pharmacology, medication preparation, and pharmacy law.

Accrediting Body: Graduates are eligible to sit for the Pharmacy Technician Certification Exam (PTCE) administered by the Pharmacy Technician Certification Board (PTCB).

CT DOL Data: Pharmacy technicians in Connecticut have an average annual wage of about \$35,000. www1.ctdol.state.ct.us

Opportunities for Growth: Certified pharmacy technicians can advance to supervisory positions, specialize in areas like chemotherapy or nuclear pharmacy, or pursue further education to become pharmacists.

Manufacturing Programs

Welding Certificates

1. Structural SMAW (STICK) Certificate 130 hours

- **Course Description:** This program covers Shielded Metal Arc Welding (SMAW), commonly known as stick welding, which is widely used in structural applications such as buildings, bridges, and industrial frameworks. Students will gain hands-on experience in welding techniques, metal preparation, and safety protocols.
- **Learning Outcomes:** Proficiency in stick welding, ability to read blueprints and welding symbols, understanding of structural welding codes, and adherence to safety standards.
- **Accreditation Body:** American Welding Society (AWS) D1.1 Certification.
- **CT DOL Data:** High demand in construction, infrastructure, and heavy equipment manufacturing, with an expected job growth of 8% over the next decade.
- **Opportunities for Growth:** Advancement to pipe welding, fabrication, and welding inspection roles.

2. GTAW (TIG) Certificate 100 hours

- **Course Description:** This program focuses on Gas Tungsten Arc Welding (GTAW), also known as TIG welding, which is used for precision welding of stainless steel, aluminum, and other nonferrous metals. It is highly valued in the aerospace, automotive, and high-tech manufacturing industries.
- **Learning Outcomes:** Competence in TIG welding techniques, knowledge of shielding gases and electrode selection, and precision welding skills.
- **Accreditation Body:** AWS D17.1 Certification.
- **CT DOL Data:** Strong demand in aerospace, precision manufacturing, and high-tech industries, with increasing job opportunities as automation expands.
- **Opportunities for Growth:** Pathway to advanced aerospace welding, fabrication, and specialized welding careers.

3. GMAW (MIG) Certificate 100 hours

- **Course Description:** This program covers Gas Metal Arc Welding (GMAW), or MIG welding, a fast and efficient welding process widely used in industrial manufacturing, metal fabrication, and automotive repair. Students will learn the fundamentals of welding, metal preparation, and machine operation.
- **Learning Outcomes:** Mastery of MIG welding, understanding of metal types and welding positions, ability to operate welding machinery safely, and compliance with industrial safety regulations.
- **Accreditation Body:** AWS D1.1 Certification.
- **CT DOL Data:** High employment rates in metal fabrication and industrial manufacturing, with welding-related jobs expected to see steady growth due to demand in transportation, infrastructure, and energy sectors.
- **Opportunities for Growth:** Career progression into robotic welding, automation, and advanced manufacturing fields.

4. CNC Manufacturing Technology 1-2-3

Cost: CNC 1- \$2,100, CNC 2 & 3-1,999

Course Description: An intensive training program that enhances a manufacturing employee's effectiveness on the shop floor. The program operates in an all-in-one model, immersing students in a production machining environment that results in a finished multi-component product.

- **Three Levels of Training:**
 - **Level 1:** Basic machining operations and CNC basics
 - **Level 2:** Intermediate skills that build from Level 1
 - **Level 3:** 4th and 5th axis machining, Mastercam 2017
- **Accreditation Body:** National Institute for Metalworking Skills (NIMS) Certification.
- **CT DOL Data:** Strong job outlook in advanced manufacturing, aerospace, and precision machining.
- **Opportunities for Growth:** Progression to CNC programming, engineering, and automation fields.

Optical Fabrication and Metrology Certification 220 hours

Course Description: This 220-hour certificate program, equivalent to one semester, is designed to prepare students for entry-level positions in optics manufacturing, metrology, and quality assurance industries, among others. This program integrates theoretical foundations with hands-on training in the fabrication, testing, and quality control of precision optical components. Emphasizing industry-relevant skills, students gain expertise in geometric and physical optics, conventional fabrication techniques, and precision metrology, including adherence to international standards such as DIN ISO 10110. Additionally, the program highlights critical applications of optical systems in defense, aerospace, healthcare, telecommunications, and environmental monitoring. Safety protocols and cleanroom practices are reinforced throughout, ensuring readiness for professional environments.

Accrediting Body: Graduates will be recognized for their expertise in optical fabrication, precision measurement, and quality control, meeting the demands of a dynamic and rapidly evolving industry.

CT DOL Data: Connecticut's market for optical fabrication and metrology professionals is characterized by a healthy number of job opportunities, competitive wages, and a growth trajectory, aligning with national and global industry trends. Companies like **ASML** in Wilton, CT which lies one of the largest R&D and manufacturing site in the US. Their partnership is to hire students who complete this program.

Opportunities for Growth: The demand for optical fabrication and metrology experts is growing across multiple high-tech and industrial sectors. The fields of aerospace, telecommunications, healthcare, and advanced manufacturing are all experiencing rapid growth, driving demand for skilled professionals with specialized certifications. As technology continues to advance and industries become more reliant on precision, professionals in these fields will see more career opportunities and paths for advancement.

Information Technology Programs

1. IT Support Certificate

Course Description: The IT Support Certificate is designed to equip learners with the essential technical skills needed for an entry-level IT support role. This comprehensive program covers fundamental IT concepts, including computer hardware, operating system installation, system administration, security, networking, and troubleshooting. The certificate consists of five progressive courses, starting from beginner to advanced levels.

Upon successful completion, students will earn three industry-recognized certifications in addition to the overall IT Support Certificate. The program tuition includes one exam voucher each for the CompTIA A+, CompTIA Network+, and AWS Cloud Foundations certifications.

Level: Beginner

Total Hours: 198 hours

Instruction: Combination of instructor-led and self-study training

Credentials Earned:

- **College Certificate of Completion in IT Support**
- **CompTIA A+ Certification**
- **CompTIA Network+ Certification**
- **AWS Cloud Foundations Certification**

Course Breakdown:

Course	Level	Hours
Prerequisite: IT Bootcamp	Beginner	24
CompTIA A+ Certification	Beginner	72
CompTIA Network+ Certification	Beginner	60
Microsoft Office Specialist	Beginner	42
AWS Cloud Foundations Certification	Intermediate	24

Accrediting Body: This program aligns with industry standards and prepares students for globally recognized certifications. The **CompTIA A+** and **Network+** certifications are

accredited by **CompTIA** (Computing Technology Industry Association), and **AWS Cloud Foundations** is an entry-level certification recognized by **Amazon Web Services (AWS)**.

CT DOL Data:

According to the **Connecticut Department of Labor (CT DOL)**: The median annual wage for **Computer User Support Specialists** in Connecticut is approximately **\$60,000 - \$65,000**. The demand for **IT support roles** is projected to grow by **8-10%** over the next decade due to increasing reliance on technology across industries.

Opportunities for Growth: The IT Support Certificate serves as a foundational entry point into the IT industry. Graduates can build upon their credentials by pursuing:

- **Advanced Certifications**, such as CompTIA Security+, Cisco Certified Network Associate (CCNA), and Microsoft Certified: Azure Fundamentals.
- **Specialized Training** in cybersecurity, cloud computing, and IT project management.
- **Higher Education**, including associate or bachelor's degree programs in Information Technology, Networking, or Cybersecurity.
- **Career Advancement**, with experience leading to roles such as IT Manager, Systems Administrator, or Network Engineer.

2. Web Developer Certificate

Course Description: Web developers are responsible for ensuring that websites are visually appealing and function properly. They collaborate with web and graphic designers, monitor website traffic, troubleshoot issues, and make updates when needed. This intermediate-level Web Developer Certificate program is designed with a progression from beginner to advanced courses, enabling you to earn two industry-recognized certifications in addition to the overall certificate.

Level: Intermediate

Total Hours: 458 hours

Instruction: Courses include a combination of instructor-led and self-study training

Credentials Earned:

- **College Certificate of Completion** in Web Development
- **Google Data Analytics Certificate**
- **Google UX Design Certificate**

Certificate Courses Breakdown:

Course	Level	Hours
Web Design (Beginner)	Beginner	30
Google Data Analytics Certificate	Intermediate	180
Google UX Design Certificate	Intermediate	200
JAVA	Intermediate	30
PHP/MySQL	Intermediate	18

Accrediting Body:

This program aligns with industry standards and prepares students for globally recognized certifications. The Google Data Analytics Certificate and Google UX Design Certificate are accredited by Google and are recognized in the tech industry.

CT DOL Data:

According to the Connecticut Department of Labor (CT DOL), the median annual wage for web developers in Connecticut is approximately \$70,000 - \$75,000. The demand for web development roles is projected to grow by 15-20% over the next decade due to the increasing reliance on web technologies across industries.

Opportunities for Growth:

The Web Developer Certificate serves as a solid foundation for entry-level web development roles. Graduates can further their careers by pursuing:

- Advanced Certifications, such as Full Stack Web Development, Google Web Designer, and JavaScript Frameworks (React, Angular).
- Specialized Training in areas such as UI/UX Design, mobile app development, and progressive web apps (PWAs).
- Higher Education, including associate or bachelor's degree programs in Computer Science, Web Development, or Information Technology.
- Career Advancement, with experience leading to roles such as Senior Web Developer, Front-End Developer, Back-End Developer, or Web Development Team Lead.

3. Cybersecurity and Information Security Certification

Course Description: A Cybersecurity/Information Security Certificate provides foundational knowledge and skills for securing computer systems and networks. The program covers essential cybersecurity concepts and prepares you for industry-recognized certifications. This certificate is designed in a progression from beginner to advanced levels, with courses that also enable participants to earn three individual certifications: CompTIA A+, CompTIA Security+, and CompTIA Network+. Each course includes an exam voucher for these certifications.

Level: Intermediate

Total Hours: 221 hours

Instruction: Instruction includes a combination of instructor-led and self-study training.

Credentials Earned:

- College Certificate of Completion in Information Security
- CompTIA A+ Certification
- CompTIA Network+ Certification
- CompTIA Security+ Certification

Certificate Courses Breakdown:

Course	Level	Hours
Prerequisite: IT Bootcamp	Beginner	24
CompTIA A+ Certification	Intermediate	72
Fundamentals of Linux	Beginner	24
Python Basics	Beginner	24
CompTIA Network+ Certification	Intermediate	60
CompTIA Security+ Certification	Intermediate	60
Business Continuity/Disaster Recovery	Intermediate	6
Ethical Hacking	Intermediate	35

Accrediting Body:

This program aligns with industry standards and prepares students for globally recognized certifications. The CompTIA A+, CompTIA Network+, and CompTIA Security+ certifications are accredited by CompTIA (Computing Technology Industry Association), a leading provider of vendor-neutral certifications for IT professionals.

CT DOL Data:

According to the Connecticut Department of Labor (CT DOL), the median annual wage for Information Security Analysts in Connecticut is approximately \$85,000 - \$95,000. The demand for cybersecurity and information security roles is projected to grow by 14-18% over the next decade due to the increasing need for securing digital infrastructures across industries.

Opportunities for Growth:

The Cybersecurity/Information Security Certificate serves as a solid foundation for entry-level cybersecurity and information security roles. Graduates can further their careers by pursuing:

- Advanced Certifications, such as Certified Information Systems Security Professional (CISSP), Certified Ethical Hacker (CEH), and Cisco Certified CyberOps Associate.
- Specialized Training in areas like penetration testing, incident response, and cloud security.
- Higher Education, including associate or bachelor's degree programs in Cybersecurity, Information Technology, or Network Security.
- Career Advancement, with experience leading to roles such as Cybersecurity Engineer, Security Consultant, Network Security Administrator, or Security Operations Center (SOC) Analyst.

4. Network and Cloud Maintenance Certificate

Course Description: The Network and Cloud Certificate is designed for individuals with at least five years of hands-on experience architecting and implementing network solutions. Participants will gain expertise in Amazon Web Services (AWS), including security best practices, storage options, networking, and advanced cloud architectures. This certificate is structured in a progression from beginner to advanced levels, enabling participants to earn four industry-recognized certifications in addition to the overall Network and Cloud Certificate. Tuition includes one exam voucher for each of the AWS Cloud Foundations, Architecture, Operations, and Developer certifications.

Level: Advanced

Total Hours: 144 hours

Instruction: This program consists of instructor-led and self-paced training sessions

Credentials Earned:

- College Certificate of Completion in Network and Cloud
- AWS Cloud Foundations Certification
- AWS Cloud Architecture Certification
- AWS Cloud Operations Certification
- AWS Cloud Developer Certification

Certificate Courses Breakdown:

Course	Level	Hours
AWS Cloud Foundations	Intermediate	24
AWS Cloud Architecture	Advanced	40
AWS Cloud Operations	Advanced	40
AWS Cloud Developer	Advanced	40

Accrediting Body:

This program aligns with industry standards and prepares students for globally recognized certifications. The AWS Cloud Foundations, AWS Cloud Architecture, AWS Cloud Operations, and AWS Cloud Developer certifications are accredited by Amazon Web Services (AWS), a global leader in cloud computing services.

CT DOL Data:

According to the Connecticut Department of Labor (CT DOL), the median annual wage for Cloud Solutions Architects and similar cloud-related roles in Connecticut is approximately \$105,000 - \$120,000. The demand for cloud professionals is projected to grow by 20-25% over the next decade due to the increasing adoption of cloud technologies by businesses and government sectors.

Opportunities for Growth:

The Network and Cloud Maintenance Certificate serves as a foundation for advanced cloud computing and networking careers. Graduates can further their careers by pursuing:

- Advanced Certifications, such as AWS Certified Solutions Architect – Professional, Microsoft Azure Architect, or Google Cloud Professional Cloud Architect.
- Specialized Training in areas like cloud security, cloud migrations, and hybrid cloud solutions.
- Higher Education, including bachelor's or master's degree programs in Cloud Computing, Cloud Systems Engineering, or Information Technology.
- Career Advancement, with experience leading to roles such as Cloud Project Manager, Cloud Solutions Architect, Cloud Systems Administrator, or Cloud DevOps Engineer.

5. Artificial Intelligence Certification

Description: The **Artificial Intelligence Certificate** is a comprehensive introduction to the fundamental concepts and applications of AI. This non-credit program combines theoretical knowledge with practical insights, equipping participants with the skills necessary to harness the power of **Generative AI** in their professional endeavors. By exploring AI tools and technologies, students will learn how to enhance productivity, optimize decision-making, and address the ethical and societal implications of AI.

Level: Beginner to intermediate

Total Hours: 40 hours

Instruction: Courses are delivered through a combination of instructor-led sessions and self-study.

Credentials Earned:

College Certificate of Completion in Artificial Intelligence

Accrediting Body:

This program aligns with current AI industry trends and prepares students for the evolving demands of AI applications. The certificate is accredited by leading AI and technology standards.

CT DOL Data:

According to the Connecticut Department of Labor (CT DOL), the median annual wage for professionals working with AI, such as AI Engineers and Data Scientists, is approximately \$110,000 - \$120,000. The demand for AI specialists is expected to grow by 20-30% over the next decade, with widespread adoption across industries like healthcare, finance, and marketing.

Opportunities for Growth:

The Artificial Intelligence Certificate provides foundational knowledge, offering participants a gateway to numerous career advancement opportunities in AI and related fields.

Graduates can pursue:

- Advanced AI Certifications, such as Certified AI Professional or Deep Learning Specializations.
- Specialized Training in machine learning, natural language processing, and computer vision.

- Higher Education, including master's degrees in Artificial Intelligence, Data Science, or Machine Learning.
- Career Advancement, with experience leading to roles such as AI Engineer, Data Scientist, or Machine Learning Specialist.

Cost updates by course for IT programs, 6/1/2025 start. Additional cost for Textbook and Exam.

CompTIA A+ and Cert Prep	\$1,300.00
CompTIA Network+ and Cert Prep	\$1,200.00
CompTIA Security+ and Cert Prep	\$1,200.00
Microsoft Office Specialist	\$660.00
IT Bootcamp	\$400.00
IT Support (Google) (150 hrs)	\$1,075.00
Web Design	\$630.00
Data Analytics (Google) (180 hrs)	\$1,350.00
UX Design (Google) (200 hrs)	\$1,350.00
JAVA	\$600.00
PHP/MYSQL	\$399.00
Business Continuity Disaster	\$130.00
Ethical Hacking	\$ 550.00
CISSP	\$600.00
AWS Cloud Foundations	\$550.00
AWS Architecture	\$1,000.00
AWS Operations	\$1,000.00
AWS Developer	\$1,000.00