



Tom P.

**HANEY
TECHNICAL
COLLEGE**

2026-2027 Program Catalog



(850) 767-5500 | haney.edu



Tom P. Haney Technical College Career and Adult Education

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EEO Non-Discrimination Statement

No person shall on the basis of race, ethnicity, color, religion, sex, gender, gender identity, sexual orientation, national origin, disability, age, genetic information, pregnancy, or marital status, be excluded from participation in, be denied the benefits of, or be subjected to harassment or discrimination under, any educational program or activity or work environment. This practice shall apply equally to students, employees, applicants for employment and all persons having business with the School Board. The District also provides equal access to its facilities to the Boy Scouts and other patriotic youth groups, as required by the Boy Scouts of America Equal Access Act.

The following person has been designated to handle inquiries regarding non-discrimination policies:
Holly Buchanan, Executive Director of Human Resources
850-767-4100
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Accreditation



The Commission of the Council on Occupational Education (COE), 7840 Roswell Road, Bldg. 300, Suite 325, Atlanta, GA 30350 (www.council.org) accredits Tom P. Haney Technical College (Haney Technical College). COE may be contacted at www.council.org or by calling toll free (800) 917-2081.



Cognia, Alpharetta, Georgia 30009, 888.413.3669. Cognia may be contacted by calling toll free (888) 413-3669 or cognia.org.

In addition, a number of programs have been approved, certified and/or recognize by the military, sponsoring agencies and professional organizations. All programs offered at Tom P. Haney Technical College are part of Bay District Schools, approved by the Florida Department of Education, the Division of Career and Adult Education, the U. S. Department of Education, and many are approved by the Bureau of State Approving for Veterans' Training-Division of Veterans' Benefits and Assistance Florida Department of Veterans' Affairs.

School Advisory Council

A School Advisory Council assists Haney Technical College in assessing the quality of the campus education program. The Council advises, makes general recommendations to the operation of the campus, reviews the school's beliefs, mission statement, and vision, and helps in planning and meeting the goals of the School Improvement Plan. The Council consists of local business leaders,

Occupational Advisory Committee

Each Career and Technical Education program has an Occupational Advisory Committee consisting of program leaders and employers with a minimum of five members. Each Program Advisory Committee meets at least twice annually to review the program mission statement and curriculum to make suggestions and recommendations to improve the program as it pertains to current employment needs within the industry.

Beliefs

- All students are unique and can learn
- Clearly-defined expectations and a variety of instructional techniques must be provided for student achievement
- Students are provided with a variety of assessments and with opportunities to demonstrate achievement, to become life-long learners, and to become productive members of society
- Staff, parents, students, and community members should participate in and support a positive learning environment
- Continuous reflection and ongoing professional development for staff is essential to provide effective, relevant training to prepare students for today's changing global workplace

Mission Statement

Tom P. Haney Technical College's mission is to provide high-quality career-educational and training opportunities to meet the current and future high-demand needs of our regional and global skilled workforce.

Vision

Tom P. Haney Technical College provides education and training to meet the diverse needs of our skilled workforce and is an integral part of regional and global economic growth and development.

Welcome from the Director

Dear Students, Families, Community Partners, and Friends of Tom P. Haney Technical College,

Welcome to Tom P. Haney Technical College, where opportunity, skill development, and workforce readiness come together to shape brighter futures. It is my honor to serve as Director of a school with such a proud tradition of preparing students for meaningful careers and lifelong success.



At Haney Technical College, we believe that career and technical education changes lives. Whether students are beginning a new career path, advancing their current skills, earning industry certifications, completing adult education coursework, or preparing to enter the workforce, our mission is to provide high-quality educational and training opportunities that meet the needs of both our students and our region's employers.

Our programs are designed to connect classroom instruction with real-world application. Through hands-on training, experienced instructors, industry partnerships, and a strong commitment to student support, Haney prepares graduates to enter high-demand fields with confidence, professionalism, and the technical skills needed to succeed.

We are proud to serve Bay County and the surrounding region by offering programs that support local workforce needs in areas such as aviation, automotive, welding, marine technologies, health sciences, construction trades, information technology, cosmetology, and adult education. Each program reflects our commitment to excellence, innovation, and responsiveness to the changing needs of business and industry.

As you explore Tom P. Haney Technical College, I encourage you to see this campus as more than a place of learning. It is a place of opportunity, growth, and transformation. Our faculty and staff are committed to helping each student overcome barriers, reach personal goals, and build a future filled with purpose.

Thank you for choosing Haney Technical College. We are excited to walk alongside you as you take the next step toward your career, your goals, and your future.

Sincerely,

Angela Reese

Angela Reese
Director
Tom P. Haney Technical College

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PROGRAM OFFERINGS

ADULT GENERAL EDUCATION

Adult General Education includes a range of comprehensive, instructional frameworks designed to accelerate adult learners toward the mastery of foundational competencies required for sustainable employment, economic self-sufficiency, and active citizenship. Programs encompass Adult Basic Education (ABE), Academic Skills Building (ASB), GED® Test Preparation, and Adult English for Speakers of Other Languages (ESOL).



In accordance with Florida Department of Education (FLDOE) guidelines, Adult General Education programs are available to individuals who:

- Are 16 years of age or older; and
- Have filed a formal declaration of intent to terminate school enrollment pursuant to Section 1003.21(1)(c), F.S., or for home education students, have filed a written notice of termination of their home education program with the district superintendent pursuant to Section 1002.41(1)(c), F.S. Do not possess a standard high school diploma or its recognized equivalent; or
- Are a United States citizen or lawfully present in the United States

Program Offering Index	FLDOE Program Number
Adult Basic Education (ABE)	9900000
Adult English for Speakers of Other Languages (ESOL)	9900040
Academic Skills Building (ASB)	9900500
GED Preparation	9900130

Enrollment & Placement

Adult General Education pathways feature flexible enrollment intake cycles traditionally scheduled in August and January. Initial student diagnostic placement, individual instructional plans, and corresponding coursework tracks are determined via baseline scaled scores achieved on state-approved standardized assessments.

Adult Basic Education (ABE) – Program 9900000

The Adult Basic Education (ABE) program provides non-credit foundational instruction across language arts, reading, and mathematics corresponding to National Reporting System (NRS) grade-level equivalencies of 0.0–8.9. The curriculum is meticulously structured to optimize the literacy and mathematical reasoning capabilities of Florida's workforce. Coursework acts as a primary prerequisite catalyst, enabling students to seamlessly transition into GED® Preparation pathways, postsecondary Career and Technical Education (CTE) programs, or high-demand employment.

Literacy Completion Points (LCPs) are sequentially awarded to students demonstrating competency mastery across progressive Educational Functioning Levels, verified through post-testing on state-approved standardized assessments.

Course Name	Course Number
ABE Mathematics	9900001
ABE Reasoning through Language Arts	9900023

Course Descriptions

- **9900001 ABE Mathematics:** Instructional standards are aligned to Florida's B.E.S.T. standards. Lower-level instruction begins with baseline numeracy, operations, base-ten calculations, and foundational geometric relationships. Advanced bands emphasize algebraic thinking, rational numbers, basic

expressions, linear equations, multi-step inequalities, functional data relationships, and proportional reasoning.

- **9900023 ABE Reasoning through Language Arts:** This comprehensive framework synthesizes essential reading comprehension, writing mechanics, language convention, and speaking/listening skills. Grounded in Florida's B.E.S.T. standards, instructional modules build close-reading capabilities, textual analysis, structural vocabulary, and cohesive expository essay development.

Academic Skills Building (ASB) – Program 9900500

The Academic Skills Building (ASB) program is a targeted, non-credit instructional framework specifically engineered for adult learners who possess a high school diploma or its equivalent but score below standard grade-equivalent metrics required for complete Career and Technical Education (CTE) program graduation (NRS grade-level equivalencies 9.0 and above). ASB provides highly individualized, accelerated remediation modules focused exclusively on the technical literacy and computational skills essential to master corresponding career-field licensing or certification standards.

Course Name	Course Number
ASB Mathematics	9900501
ASB Reasoning through Language Arts	9900502

Adult English for Speakers of Other Languages (ESOL) – Program/Course 9900040

The Adult ESOL program delivers rigorous, communicative English language instruction to adult learners whose native language is other than English. The framework focuses simultaneously on four vital language domains: Listening, Speaking, Reading, and Writing. Instruction is structured across six distinct National Reporting System (NRS) English Language Proficiency levels to prepare participants to successfully navigate domestic workplace cultures, engage productively in civic life, enter Career and Technical Education, or transition seamlessly into postsecondary academic pathways.

General Educational Development (GED®) Preparation – Program 9900130

The GED® Preparation program features individualized instructional frameworks, flexible scheduling structures, and performance-based milestones designed to prepare students to successfully challenge the four standalone computer-based subtests comprising the Official GED® Examination. Successful completion results in the credentialing and issuance of a State of Florida High School Diploma. Instruction targets high-school level competencies mapping to grade-level equivalencies 9.0–12.9.

9900135 GED® Comprehensive

This integrated course bridges the content domains across all four critical areas of the state high school equivalency assessment:

- **Reasoning through Language Arts (RLA):** Focuses heavily on complex textual analysis within academic and professional environments. Students master the ability to evaluate diverse written arguments, deduce underlying meanings, synthesize complex syntax, and construct clear, evidence-based written essays.
- **Mathematical Reasoning:** Centers on algebraic and quantitative problem-solving. Instruction delivers rigorous conceptual fluency in equations, data representations, geometric measurement, linear functions, and statistical modeling applied to realistic variables.
- **Social Studies:** Integrates historical reasoning across four vital institutional frameworks: civics and government, United States history, economics, and geography. Students cultivate skills in interpreting primary source documents, maps, statistical charts, and behavioral data.
- **Science:** Examines core scientific methods and literacy within life science, physical science, and Earth/space science domains. Students execute textual evaluation, read complex graphical representations, calculate chemical/physical values, and solve multi-layered data problems.

CAREER AND TECHNICAL EDUCATION

General Information

Career and Technical Education (CTE) is designed to meet the needs of students, business and industry, school districts, colleges, community-based organizations, and more – including the public and private sectors throughout the state of Florida to improve Florida's workforce.

The CTE programs offered at Haney Technical College include the clusters of business and information technology, health, human services, manufacturing, and transportation. Programs vary in length, as measured by clock hours, from 600 hours to 1500 hours. Each regular school year is approximately 900 clock hours. A student enrolled full-time should complete approximately 900-1,100 clock hours in a school year.

Some CTE programs prepare students for state and/or national license examinations. These programs have specific start and end dates, with additional safety, dress code, attendance, and age requirements. Programs that prepare students for license examinations are indicated.

Structure

Programs consist of courses, with each course measured in clock hours. Programs are structured in a planned sequence of instruction leading to one or more occupational completion points (OCPs).

Enrollment for Adult Career and Technical Education

The post-secondary adult Career and Technical Education programs are designed for adult students. Most programs begin in August and January; however, some programs that lead to the eligibility to take an exam leading to state or national licensure have specific start and end dates (Aviation Airframe Mechanics, Aviation Powerplant Mechanics, Cosmetology, and Practical Nursing). Contact Student Services and/or check the Haney web site for more information: haney.edu.

Work-Based Activities

Some programs incorporate structured learning activities that are conducted in supervised work settings external to the institution or in a setting that involves the public (for example: clients who are served by the institution in cosmetology clinical or automotive technology settings) that are components of educational programs (e.g., externships, internships, clinical experiences, industrial cooperative education, and similar activities). These activities must be planned with at least two objectives: 1) To provide students with the opportunity to develop and apply a 'real-world' work experience using the knowledge and skills they attained in their program of study; and, 2) To provide the institution with objective input from potential employers or customers of program graduates

Basic Skills Exit Requirements

To successfully complete a Career and Technical Education (CTE) program, students must meet or demonstrate an exemption from the program's minimum Basic Skills requirements, pursuant to **§1008.30, Florida Statutes**.

In accordance with **Rule 6A-10.040, F.A.C.**, students enrolled in clock-hour programs of **450 hours or more** must achieve the minimum grade-level equivalent scores designated for their specific program in both Mathematics (Computation) and Reading (Communications). These requirements are assessed using state-approved standardized baseline examinations. Eligible alternative assessments and acceptable cut-scores are governed by **Rule 6A-10.0315, F.A.C.**, and may include the Next-Generation ACCUPLACER, SAT, ACT, or other state-authorized placement mechanisms.

Basic Skills Exemptions

Pursuant to Florida Administrative Code and Florida Statutes, an adult student may be exempt from the Basic Skills testing requirement if they meet any of the following criteria:

- **Academic Degree Holder:** Possesses an Associate of Applied Science (A.A.S.) degree or higher from an accredited institution.
- **Prior Assessment:** Has successfully completed or is exempt from a college entry-level examination.
- **Active-Duty Military:** Is currently serving as an active-duty member of any branch of the United States Armed Services.
- **Professional Licensure:** Has passed a state, national, or industry licensure examination directly pertinent to their program of study.
- **Exceptional Student Status:** Is an adult student with a documented disability as defined in **Section 1004.02(6), F.S.**, or was served in exceptional student education (except gifted) as defined in **Section 1004.91(3)(a), F.S.** Exemptions under this provision are granted in accordance with established institutional and state guidelines.

Professional Dress & Uniform Requirements

Haney Technical College prepares students for real-world industry standards. **Depending on the program, students may be required to purchase and wear specific occupational uniforms, scrubs, or specialized safety gear.** Because these requirements vary by instructional cluster and are subject to change, students should verify the exact dress code and supply requirements for their chosen track with **Student Services** or their program instructor prior to registration.

Career And Technical Education Programs Chart

Program Name	Program Number	Program Hours	Basic Skills Level	
			Computation	Communications
Automotive Collision Technology Technician	T401300	1400	9	9
Aviation Airframe Mechanics (Teach-out, no new students)	T640300	900	10	9
Aviation Airframe Mechanics (new in 2026-27)	T640500	900	10	9
Aviation Powerplant Mechanics (Teach-out, no new students)	T640400	900	10	9
Aviation Powerplant Mechanics (new in 2026-27)	T640600	900	10	9
Avionics Systems Technician	T400310	1200	10	10
Central Sterile Processing Technology	H170222	650	9	9
Computer Systems & Information Technology (CSIT)	Y100200	900	9	9
Cosmetology	D500100	1200	8	8
Electrician	I460314	1500	9	9
Enterprise Network and Server Support Technology	Y300500	750	10	10
Heating, Ventilation, Air-Conditioning/Refrigeration (HVAC/R) 1	C400410	750	10	9
Heating, Ventilation, Air-Conditioning/Refrigeration (HVAC/R) 2	C400420	600	10	9
Marine Service Technologies	T400210	1350	10	10
Master Automotive Service Technology 1	T400700	1050	10	9
Master Automotive Service Technology 2	T400800	750	10	9
Medical Administrative Specialist	B070300	1050	10	10
Patient Care Technician	H700600	600	10	10
Practical Nursing	H170607	1350	11	11
Welding Technology	J400400	1050	9	9
Welding Technology – Advanced	J400410	750	9	9

PROGRAM CREDENTIALS & CERTIFICATIONS

Tom P. Haney Technical College programs feature two distinct levels of professional recognition designed to optimize graduate marketability and ensure workplace readiness: **Core Industry Certifications** and **Occupational Site Credentials**.

Core Industry Certifications

In accordance with the **Florida Career and Professional Education (CAPE) Act (Section 1008.44, Florida Statutes)**, an industry certification is a voluntary process through which a postsecondary student is assessed by an independent, third-party certifying entity using predetermined standards for knowledge, skills, and occupational competencies. Successful completion results in a high-value, nationally recognized credential identified on Florida's official Master Credentials List.

Successful completion results in the issuance of a highly valued, nationally recognized credential that meets at least one of the following state criteria:

- It addresses a critical local, regional, or statewide economic workforce need.
- It is explicitly linked to an occupation included on CareerSource Florida's targeted occupations list.
- It is aligned with an industry cluster identified as economically vital or emerging.

Tom P. Haney Technical College aligns its Career and Technical Education (CTE) curriculum directly with Florida's **Master Credentials List (MCL)**. Pursuant to **Section 1007.23, Florida Statutes**, many of these core certifications carry a statewide guarantee of minimum college credit articulation into Associate in Science (A.S.) or Associate in Applied Science (A.A.S.) degree programs at any Florida College System institution.

Occupational & Safety Credentials

In addition to major state-tracked certifications, many programs integrate vital foundational credentials—such as Cardiopulmonary Resuscitation (CPR), basic first aid, and specific occupational safety certifications. While these credentials may sit outside the formal CAPE definition, they represent critical, hands-on regulatory standards required for immediate field employment and secure workplace safety compliance.

CREDENTIALS & CERTIFICATIONS NOTICE: Certification and credential options listed for each program reflect the program alignment at the time of this catalog's publication. Additional industry certifications, state credentials, or updated examination tracks may be integrated into the curriculum as they become available or are approved by the Florida Department of Education (FLDOE) and regional workforce boards.

CAREER AND TECHNICAL EDUCATION PROGRAMS

Automotive Collision Technology Technician

Length: 1400 hours / 56 weeks

Enrollment: Twice a year (August & January)

Program Number: T401300

Enrollment Periods: 4: 450 hours, 450 hours, 250 hours, 250 hours

The Automotive Collision Technology Technician program prepares students for a successful career in the automotive repair and refinishing industry. Students receive hands-on training in structural and non-structural damage analysis, structural repair methodologies, mechanical and electrical component repair, and plastic matching techniques.

The program focuses heavily on industry-standard surface preparation and advanced automotive refinishing techniques. Graduates will possess the skills required to work as collision repair technicians, automotive painters, and damage estimators within local dealerships, independent repair shops, and fleet maintenance facilities.



Basic Skill Level Requirements: Computation 9, Communications 9.

Automotive Collision Technology Technician program T401300 structure:

Course Number	Course Title	Course Length	OCP	Credits
ARR0140	Automotive Collision Repair and Refinishing Helper/Assistant	150 hours	A	1
Students develop essential industry safety practices, learn proper shop etiquette, and master personal protection standards. Content covers vehicle preparation for routine maintenance, customer service fundamentals, equipment inspection, and diagnosing instrument panel warning lights and gauges.				
ARR0141	Automotive Collision Refinishing Technician	450 hours	B	3
This course focuses on professional surface preparation and safety precautions in the paint booth. Students gain hands-on experience in spray gun operation, paint mixing and matching, identifying and curing paint defects, and executing final vehicle detailing.				
ARR0312	Non-Structural Damage Repair Technician	300 hours	C	2
Instruction covers safety procedures and preparation for repairing non-structural vehicle components. Students master outer body panel replacement, metal finishing, body filling, movable glass installation, plastics and adhesives, as well as basic electrical and brake systems.				
ARR0022	Damage Analysis and Estimating	75 hours	D	.5
This course combines technical and administrative skills, covering damage analysis, precise estimating techniques, and modern vehicle construction. Students also learn exact parts identification alongside critical customer relations and professional sales skills.				
ARR0112	Automotive Collision Welding, Cutting and Joining	75 hours	E	.5
Students master the specialized welding techniques required for modern collision repair. Focus is placed on trade safety precautions, structural metal cutting, and advanced joining methods to restore structural integrity.				
ARR0295	Structural Damage Repair Technician	350 hours	F	2
Advanced training covers frame inspection, unitized structure measurement, and specialized structural repairs. Coursework includes fixed glass replacement, steering and suspension, drivetrain alignment, and restoring cooling, climate control, fuel, and restraint systems.				

Program Credentials & Certifications

Students enrolled in the Automotive Collision Technology Technician program have the opportunity to prepare for and earn industry-recognized credentials from the following certifying organizations:

-  **Automotive Service Excellence (ASE)** – Industry-standard certifications covering advanced technical competencies including Mechanical and Electrical Components (B5), Non-structural Analysis and Damage Repair (B3), and Damage Analysis and Estimating (B6).
-  **Inter-Industry Conference on Auto Collision Repair (I-CAR)** – Comprehensive, course-based industry training spanning core collision repair fundamentals, specialized material repair (plastic, aluminum, and steel), structural measuring, advanced driver assistance systems, and alternative energy vehicle safety.

Aviation Airframe Mechanics (Teach-Out)

Length: 900 hours / 36 weeks
Enrollment: Twice a year (August & January)
Program Number: T640300 (Teach-Out)
Enrollment Periods: 2: 450 hours, 450 hours
License Preparation Program



Catalog Administrative Note: This program is designated as a Teach-Out track for currently enrolled students in compliance with transitioning Federal Aviation Administration (FAA) Part 147 regulations. No new student enrollments will be accepted under this program code.

This curriculum provides the foundation of general aviation knowledge and technical training required to inspect, service, maintain, and repair aircraft airframe structures. Students master specialized skills across sheet metal structures, aircraft wood and fabric repair, hydraulic systems, landing gear, and electrical systems.

Basic Skill Level Requirements: Computation 10, Communications 9.

Aviation Airframe Mechanics program T640300 structure:

Course Number	Course Title	Course Length	OCP	Credits
AMT0705	Aviation Maintenance General Technician	450 hours	A	3
Students master foundational aviation concepts, including aircraft drawing, weight and balance calculations, and maintenance forms and records. Coursework applies practical mathematics and basic physics to solve technical problems, while developing essential skills in maintaining aircraft fluid lines, fittings, and shop safety procedures.				
AMT0765	Aviation Maintenance Airframe Technician 1	165 hours	B	1
Building on general technician concepts, students explore professional career requirements and airframe structures. Instruction covers hands-on training in wood structures, aircraft covering, fabric finishes, metallic and non-metallic surfaces, basic welding, assembly, rigging, landing gear systems, and initial airframe inspections.				
AMT0766	Aviation Maintenance Airframe Technician 2	285 hours		1.5
This advanced course deepens structural maintenance skills, focusing on complex hydraulic, pneumatic, and atmospheric control systems. Students master aircraft instruments, communication, navigation, fuel systems, electrical wiring, ice and rain control, fire protection, and final FAA Airframe licensing requirements.				

Aviation Maintenance General – Course AMT0705 (Aviation Maintenance General Technician) is a core course for both Aviation Airframe Mechanics and Aviation Powerplant Mechanics. Once this course has been successfully completed for one program, it does not need to be repeated.

Program Credentials & Certifications

Students enrolled in the Aviation Airframe Mechanics program have the opportunity to prepare for and earn industry-recognized credentials from the following certifying organization:

- 
 Federal Aviation Administration (FAA) Mechanic License – Federal mechanics licensure tracks spanning comprehensive technical baselines in general aviation maintenance concepts, leading directly to the official FAA Airframe Rating (A) required to legally sign off on aircraft structural repairs.

Aviation Airframe Mechanics (New in 2026-27)

Length: 900 hours / 36 weeks
Enrollment: Twice a year (August & January)
Program Number: T640500 (New in 2026-27)
Enrollment Periods: 2: 450 hours, 450 hours
License Preparation Program



The newly restructured Aviation Airframe Mechanics program prepares students for FAA licensing and entry-level employment as airframe maintenance technicians. Aligned with modern FAA Part 147 training standards, this program covers general aviation core competencies before shifting focus entirely to airframe systems. Students engage in rigorous hands-on training featuring composite structure repair, aircraft electrical systems, communications/navigation integration, sheet metal fabrication, assembly and rigging, and landing gear systems. Graduates are prepared to successfully challenge the FAA written, oral, and practical examinations required for the Airframe rating.

Basic Skill Level Requirements: Computation 10, Communications 9.

Aviation Airframe Mechanics program T640500 structure:

Course Number	Course Title	Course Length	OCP	Credits
AMT0706	Aviation Maintenance General Technician	450 hours	A	3
This course delivers the foundational knowledge and technical skills required by FAA Part 147 regulations. Students master aircraft drawing interpretation, precision weight and balance calculations, fluid lines, hardware fabrication, basic physics, and core mathematical principles necessary for safe, regulatory-compliant aircraft service and maintenance documentation.				
AMT0767	Aviation Maintenance Airframe Technician 1	165 hours	B	1
This course is designed to transition foundational general skills into specialized airframe maintenance structures. Training focuses heavily on primary structural disciplines, including wood structures, aircraft fabric coverings, advanced finishes, structural metallic components, non-metallic composite materials, precision assembly, basic welding, and rigorous initial airframe inspections.				
AMT0768	Aviation Maintenance Airframe Technician 2	285 hours		1.5
The final course in the sequence advances technical competencies across complex aircraft systems. Students master landing gear systems, hydraulics, pneumatics, environmental and cabin atmosphere controls, instrument clusters, communication and navigation avionics, electrical wiring, fuel management, ice protection, fire safety, and final FAA Airframe certification preparation.				

Aviation Maintenance General – Course AMT0706 (Aviation Maintenance General Technician) is a core course for both Aviation Airframe Mechanics and Aviation Powerplant Mechanics. Once this course has been successfully completed for one program, it does not need to be repeated.

Program Credentials & Certifications

Students enrolled in the Aviation Airframe Mechanics program have the opportunity to prepare for and earn industry-recognized credentials from the following certifying organization:

-  Federal Aviation Administration (FAA) Mechanic License – Federal mechanics licensure tracks spanning comprehensive technical baselines in general aviation maintenance concepts, leading directly to the official FAA Airframe Rating (A) required to legally sign off on aircraft structural repairs.

Aviation Powerplant Mechanics (Teach-Out)

Length: 900 hours / 36 weeks
Enrollment: Twice a year (August & January)
Program Number: T640400 (Teach-Out)
Enrollment Periods: 2: 450 hours, 450 hours
License Preparation Program



Catalog Administrative Note: This program is designated as a Teach-Out track for currently enrolled students in compliance with transitioning Federal Aviation Administration (FAA) Part 147 regulations. No new student enrollments will be accepted under this program code.

This training pathway delivers technical competencies for students seeking to service and repair aircraft propulsion systems. Instruction includes hands-on laboratories focused on reciprocating and turbine engine theory, induction and exhaust systems, engine electrical networks, and instrument troubleshooting.

Basic Skill Level Requirements: Computation 10, Communications 9.

Aviation Powerplant Mechanics program T640400 structure:

Course Number	Course Title	Course Length	OCP	Credits
AMT0705	Aviation Maintenance General Technician	450 hours	A	3
Students master foundational aviation concepts, including aircraft drawing, weight and balance calculations, and maintenance forms and records. Coursework applies practical mathematics and basic physics to solve technical problems, while developing essential skills in maintaining aircraft fluid lines, fittings, and shop safety procedures.				
AMT0775	Aviation Maintenance Powerplant Technician 1	125 hours	B	.5
Building on general technician concepts, students dive into primary engine theory and core power systems. Instruction covers the inspection, service, and repair of reciprocating and turbine engines, alongside hands-on training in powerplant instruments, fire-protection systems, engine electrical systems, lubrication, ignition setups, and starting mechanisms.				
AMT0776	Aviation Maintenance Powerplant Technician 2	325 hours		2
This advanced course deepens engine maintenance expertise by focusing on critical sub-systems and components. Students master fuel metering, induction and engine airflow systems, engine cooling, exhaust, thrust reversers, propellers, auxiliary power units (APUs), and final FAA Powerplant Rating licensing requirements.				

Aviation Maintenance General – Course AMT0705 Aviation Maintenance General Technician) is a core course for both Aviation Airframe Mechanics and Aviation Powerplant Mechanics. Once this course has been successfully completed for one program, it does not need to be repeated.

Program Credentials & Certifications

Students enrolled in the Aviation Powerplant Mechanics program have the opportunity to prepare for and earn industry-recognized credentials from the following certifying organization:



- **Federal Aviation Administration (FAA) Mechanic License** – Federal mechanics licensure tracks spanning comprehensive technical baselines in general aviation maintenance concepts, leading directly to the official **FAA Powerplant Rating (P)** required to legally conduct maintenance and overhauls on aircraft propulsion systems.

Aviation Powerplant Mechanics (New in 2026-27)

Length: 900 hours / 36 weeks
Enrollment: Twice a year (August & January)
Program Number: T640600 (New in 2026-27)
Enrollment Periods: 2: 450 hours, 450 hours
License Preparation Program



The newly updated Aviation Powerplant Mechanics program provides advanced technical instruction designed to prepare students for FAA certification in powerplant maintenance. Students begin with core foundational aviation mechanics and proceed into comprehensive instruction covering both reciprocating (piston) and turbine (jet) aircraft engines.

The program delivers critical skills in engine overhaul, fuel metering, ignition and starting systems, propellers, and powerplant troubleshooting. Classroom theory combined with practical hangar laboratory projects ensures graduates are prepared to pass the FAA Powerplant mechanic licensing examinations.

Basic Skill Level Requirements: Computation 10, Communications 9.

Aviation Powerplant Mechanics program **T640600** structure:

Course Number	Course Title	Course Length	OCP	Credits
AMT0706	Aviation Maintenance General Technician	450 hours	A	3
This course delivers the foundational knowledge and technical skills required by FAA Part 147 regulations. Students master aircraft drawing interpretation, precision weight and balance calculations, fluid lines, hardware fabrication, basic physics, and core mathematical principles necessary for safe, regulatory-compliant aircraft service and maintenance documentation.				
AMT0775	Aviation Maintenance Powerplant Technician 1	125 hours	B	.5
Building on general technician concepts, students dive into primary engine theory and core power systems. Instruction covers the inspection, service, and repair of reciprocating and turbine engines, alongside hands-on training in powerplant instruments, fire-protection systems, engine electrical systems, lubrication, ignition setups, and starting mechanisms.				
AMT0778	Aviation Maintenance Powerplant Technician 2	325 hours		2
This advanced course deepens engine maintenance expertise by focusing on critical fuel and propulsion sub-systems. Students master fuel metering, induction and engine airflow systems, engine cooling, exhaust, thrust reversers, propellers, auxiliary power units (APUs), and final FAA Powerplant Rating licensing requirements.				

Aviation Maintenance General – Course AMT0706 Aviation Maintenance General Technician) is a core course for both Aviation Airframe Mechanics and Aviation Powerplant Mechanics. Once this course has been successfully completed for one program, it does not need to be repeated.

Program Credentials & Certifications

Students enrolled in the Aviation Powerplant Mechanics program have the opportunity to prepare for and earn industry-recognized credentials from the following certifying organization:

- 
Federal Aviation Administration (FAA) Mechanic License – Federal mechanics licensure tracks spanning comprehensive technical baselines in general aviation maintenance concepts, leading directly to the official **FAA Powerplant Rating (P)** required to legally conduct maintenance and overhauls on aircraft propulsion systems.

Avionics Systems Technician

Length: 1200 hours / 48 weeks
Enrollment: Twice a year (August & January)
Program Number: T400310
Enrollment Periods: 3: 450 hours, 450 hours, 300 hours



The Avionics Systems Technician program trains students to install, troubleshoot, repair, and maintain the highly sophisticated electronic systems found inside modern aircraft. The course moves systematically from fundamental DC/AC electronics up through advanced communications, weather radar, autopilot, and global navigation systems.

Students utilize advanced diagnostic test equipment within dedicated laboratory settings to simulate real-world flight line troubleshooting. This program readies graduates for immediate high-demand careers in aviation manufacturing, commercial airlines, and repair stations while laying the coursework groundwork for FCC licensing exams.

Basic Skill Level Requirements: Computation 10, Communications 10.

Avionics Systems Technician program T400310 structure:

Course Number	Course Title	Course Length	OCP
AVS0680	Basic Electronics Wiring Installer/Technician	150 hours	A
This course introduces foundational aviation maintenance concepts, technical communication, and basic aircraft wiring. Students master printed circuit board (PCB) practices alongside direct current (DC) circuits and power systems, with a strong emphasis on diagnostic troubleshooting techniques, career readiness, and industry employment expectations.			
AVS0681	Electrical Systems Technician	150 hours	B
Students advance to alternating current (AC) electrical systems, exploring complex circuitry and technical components. Training focuses on inspecting and troubleshooting aircraft AC power generation and distribution networks, while developing precision skills in reading and interpreting aircraft electrical drawings.			
AVS0682	Aircraft Circuits Technician	150 hours	C
This course covers solid-state devices, analog circuits, and the unique challenges of avionics corrosion control. Students explore fundamental aircraft aerodynamics alongside introductory principles of Unmanned Aerial Systems (UAS), detailing commercial drone components and operational flight standards.			
AVS0683	Aircraft Electronics Technician	150 hours	D
Instruction transitions into digital electronics, microprocessors, and integrated avionic architectures. Beyond the technical curriculum, students develop essential workplace safety practices, professionalism, employability skills, and entrepreneurial concepts required for the modern aviation industry.			
AVS0684	Avionics Installer/Technician	300 hours	E
This comprehensive course focuses on the physical installation of avionics suites and associated structural modifications. Students cover Federal Communications Commission (FCC) radio regulations, AM/FM transmitter and transceiver principles, electromagnetic wave emissions, and airborne communication systems.			
AVS0685	Advanced Avionics Installer/Technician	300 hours	F
Advanced training builds expertise in integrated flight decks, including data bus systems, navigation arrays, and instrument clusters. Coursework delivers hands-on instruction in radar networks, in-flight entertainment, engine and airframe monitoring, pitot-static configurations, and critical aircraft safety systems.			

Program Credentials & Certifications

Students enrolled in the Avionics Systems Technician program have the opportunity to prepare for and earn industry-recognized credentials and licenses from the following organizations:

-  **ASTM International / NCATT** – Core professional certification in aviation electronics, validating a technician's fundamental knowledge of aircraft electronics systems, safety, and troubleshooting protocols through the **Aircraft Electronics Technician (AET)** credential.
-  **Federal Communications Commission (FCC) License** – A federally mandated commercial operator license, specifically preparing students to challenge the **General Radiotelephone Operator License (GROL)** required to legally adjust, maintain, and repair commercial aviation radio and radar communication systems.

Central Sterile Processing Technology

Length: 650 hours / 20 weeks
Enrollment: Twice a year (August & January)
Program Number: H170222
Enrollment Periods: 2: 325 hours, 325 hours



The Central Sterile Processing Technology program prepares students to become vital components of the healthcare delivery team, directly managing infection control and surgical instrument integrity. The program covers the Core Basic Healthcare Worker curriculum before specializing in decontamination, sterilization, assembly, and distribution of medical devices.

Through clinical rotations and classroom labs, students master the stringent regulatory standards required to operate autoclaves and chemical sterilizers safely. This program directly qualifies graduates to pursue national certification and enter immediate employment in hospital surgical departments or outpatient clinics.

Basic Skill Level Requirements: Computation 9, Communications 9.

Central Sterile Processing Technology program H170222 structure:

Course Number	Course Title	Course Length	OCP
HSC0003	Basic Healthcare Worker	90 hours	A
As the foundational course of the program, instruction introduces the basic components of the modern healthcare delivery system and standard methods of service payment. Students examine various types of healthcare providers, explore the range of available medical services, and identify the general roles, legal responsibilities, and scope of practice of the healthcare team.			
STS0019	Central Sterile Service Materials Management	150 hours	B
Students explore surgical supply distribution networks and core principles of medical inventory control. Training emphasizes the practical advantages of various distribution models, stock rotation processes, sterile product evaluation, and precise tracking systems for medical/surgical supplies, patient care equipment, and case carts.			
STS0013	Central Sterile Processing Technician Practicum	410 hours	C
This culminating hands-on course applies advanced clinical knowledge to practice within a sterile processing department. Working independently and in teams, students utilize critical thinking and clinical problem-solving to master instrument decontamination, disinfection, sterilization, quality assurance monitoring, and surgical tray assembly.			

Program Credentials & Certifications

Students enrolled in the Central Sterile Processing Technology program have the opportunity to prepare for and earn industry-recognized credentials from the following certifying organization:

-  **Healthcare Sterile Processing Association (HSPA)** – Global credentialing organization providing the foundational **Certified Registered Central Service Technician (CRCST)** certification, validating crucial competencies in medical device decontamination, surgical instrument inspection, assembly, and clinical sterilization protocols.

Computer Systems & Information Technology (CSIT)

Length: 900 hours / 36 weeks
Enrollment: Twice a year (August & January)
Program Number: Y100200
Enrollment Periods: 2: 450 hours, 450 hours



The Computer Systems & Information Technology (CSIT) program provides foundational to advanced training in computer hardware, software deployment, and computer network maintenance. Students learn to build, configure, and troubleshoot desktop systems while implementing core operating system security across local networks.

The program moves sequentially into network design, server management, and entry-level digital security analysis. Graduates are prepared to step directly into technical support roles, helpdesk management, and network troubleshooting careers while preparing for major industry certifications like CompTIA A+, Network+, and Security+.

Basic Skill Level Requirements: Computation 9, Communications 9.

Computer Systems & Information Technology program Y100200 structure:

Course Number	Course Title	Course Length	OCP	Credits
CTS0082	Computer Systems Technician	300 hours	A	2
This course establishes the foundational knowledge required for entry-level IT support professionals. Students develop hands-on proficiency in assembling, configuring, maintaining, and troubleshooting personal computer hardware, mobile devices, and diagnostic tools. Training covers operating system installations, baseline workspace safety, ethical professional communication, and core preparation for the CompTIA A+ industry certification exams.				
CTS0083	Computer Network Technician	150 hours	B	1
Students transition into the architecture of modern data networks. Instruction focuses on core networking models, industry topologies, essential physical media, and fundamental protocol structures. Coursework balances theory and hardware applications to train students in the initial configuration, logical mapping, and systematic maintenance of small business routing and switching environments.				
CTS0084	Computer Networking Specialist	150 hours	C	1
This course advances networking technical competencies into infrastructure scalability and specialized diagnostic troubleshooting. Students learn to plan, optimize, and secure medium-to-large corporate network environments. Advanced topics emphasize network virtualization, enterprise hardware installation, documentation standards, and rigorous preparation for the CompTIA Network+ industry certification.				
CTS0069	Computer Security Technician	300 hours	D	2
The final course in the sequence focuses on securing network boundaries, device access controls, and sensitive corporate data. Students learn to actively recognize common cyber threats, neutralize network vulnerabilities, manage identity authentication, and configure system firewalls. Training delivers advanced security architecture concepts necessary to sit for the CompTIA Security+ industry certification.				

Articulation: Upon successful completion of this program and CompTIA certifications (A+ Certification, Network+ Certification, and Security+ Certification), students enrolling in an Associate in Science Degree (AS) program may be awarded articulated credits:

- Gulf Coast College
 - Networking Services Technology – up to 12 credit hours

Program Credentials & Certifications

Students enrolled in the Computer Systems & Information Technology (CSIT) program have the opportunity to prepare for and earn industry-recognized credentials from the following certifying organizations:

-  **CompTIA (Computing Technology Industry Association)** – Vendor-neutral credentials providing the baseline for IT professionals, including **A+** for foundational technical and hardware support, **Network+** for infrastructure environments, and **Security+** for baseline cybersecurity operations.
-  **Cisco Systems, Inc.** – Industry-standard networking credentials preparing students to earn the **Cisco Certified Network Associate (CCNA)** certification, validating competencies in network access, IP connectivity, IP services, security fundamentals, and automation/programmability.
-  **Microsoft Corporation** – Cloud-infrastructure credentials preparing students to earn the **Microsoft Certified: Azure Administrator Associate** certification, which validates the technical skills required to implement, manage, and monitor identity, governance, storage, compute, and virtual networks in a cloud environment.

Cosmetology

Length: 1200 hours / 40 weeks
Enrollment: Twice a year (August & January)
Program Number: D500100
Enrollment Periods: 3: 450 hours, 450 hours, 300 hours
License Preparation Program



The Cosmetology program blends scientific hair, skin, and nail care knowledge with artistic salon styling and design. Students develop professional skills across precision haircutting, advanced hair coloring chemistry, chemical texture services, skin care procedures, and nail artistry.

In addition to technical mastery, the course emphasizes Florida law and salon sanitation rules, salon management, and client communication. The program fully prepares students to meet the clock-hour eligibility standards required to sit for the state licensing exam and build a successful career as a licensed cosmetologist.

Basic Skill Level Requirements: Computation 8, Communications 8.

Cosmetology program D500100 structure:

Course Number	Course Title	Course Length	OCP
CSP0009	Grooming and Salon Services Core, Facials and Nails	225 hours	A
This foundational course introduces students to the professional beauty industry, focusing on critical salon safety, sanitation regulations, and sterilization methods. Training covers essential skin and nail care theory, equipping students to perform professional manicures, pedicures, basic facials, and skin analysis while upholding strict public health and environmental management standards.			
COS0002	Cosmetologist and Hairstylist 1	300 hours	
As the first phase of advanced structural training, students master basic trichology, hair shaping, and wet styling principles. Hands-on instruction details precise hair cutting methodologies, thermal styling techniques, roller placements, and initial chemical texturizing, emphasizing safe implement operation and ergonomic body mechanics in the salon environment.			
COS0003	Cosmetologist and Hairstylist 2	300 hours	
This mid-level course elevates creative design through complex hair color formulations and structural chemical applications. Students develop professional skills in standard permanent waving, chemical hair relaxing, multi-dimensional highlighting, and advanced color correction, alongside rigorous training on product chemistry and scalp health diagnostics.			
COS0009	Cosmetologist and Hairstylist 3	375 hours	
The final course in the sequence sharpens advanced artistry and professional workspace acumen. Students cover intricate hair design setups, specialized wig services, and tailored long-hair styling, concluding with target training in salon management, state law compliance, client retention strategies, and extensive preparation for the Florida Cosmetology Licensure Examination.			

Cosmetology program **8905100** structure for secondary (high school) students only:

Course Number	Course Title	Credits
8757210	Grooming and Salon Services Core, Facials and Nails	.5
8905120	Cosmetology Nails 2	.5
8905130	Cosmetology Facials 3	.5
8905140	Cosmetology 4	1
8905150	Cosmetology 5	1
8905160	Cosmetology 6	1
8905170	Cosmetology 7	1
8905180	Cosmetology 8	1
8905190	Cosmetology 9	1.5

Program Credentials & Certifications

Students enrolled in the Cosmetology program are prepared to challenge the state-level examination and meet the licensure requirements of the following governing agency:

-  **Florida Department of Business and Professional Regulation (DBPR)** – The official state licensing board governing the beauty industry. Successful program completion satisfies the mandatory 1,200 clock hours required to challenge the dual-part **Florida Cosmetologist License Examination** (*Written Theory and Written Clinical*) to legally practice as a licensed cosmetologist within the state.

Electrician

Length: 1500 hours / 60 weeks

Enrollment: Twice a year (August & January)

Program Number: I460314

Enrollment Periods: 4: 450 hours, 450 hours, 300 hours, 300 hours

Basic Skill Level Requirements: Computation 9, Communications 9.



*Photo courtesy Andrew Wardlow,
News Herald Chief Photographer*

Electrician program I460314 structure:

Course Number	Course Title	Course Length	OCP	Credits
BCV0603	Electrician Helper	300 hours	A	2
This course serves as the introduction to the electrical trade, emphasizing basic construction safety protocols, first aid, and standard workspace practices. Students master tool identification, proper equipment operation, fundamental math calculations for electrical circuits, blueprint interpretation, basic electrical theory, and initial wire handling techniques.				
BCV0640	Residential Electrician	450 hours	B	3
Students develop the practical skills required to plan, layout, and install electrical systems in single-family and multi-family dwellings. Training focuses on the selection and configuration of residential boxes, conductors, switches, receptacles, lighting fixtures, and service entrance equipment while enforcing strict compliance with National Electrical Code (NEC) criteria.				
BCV0652	Commercial Electrician	450 hours	C	3
This course shifts focus to commercial and institutional power infrastructures. Students gain hands-on experience calculating electrical loads, bending and installing various conduit profiles (EMT, IMC, and Rigid), configuring three-phase power distribution panels, installing commercial lighting arrays, and troubleshooting complex commercial service equipment under current NEC standards.				
BCV0667	Industrial Electrician	300 hours	D	2
The final course in the sequence introduces advanced industrial power applications, automation, and control systems. Instruction covers the wiring and troubleshooting of electric motors, magnetic motor starters, variable frequency drives (VFDs), relays, overcurrent protection systems, and basic programmable logic controllers (PLCs) utilized in automated industrial facilities.				

Program Credentials & Certifications

Students enrolled in the Electrician program have the opportunity to prepare for and earn industry-recognized credentials from the following certifying organization:

- **NCCER** **NCCER (National Center for Construction Education and Research)** – A widely recognized national construction registry providing standardized craft training. Students build competencies sequentially through the curriculum, preparing them to earn the comprehensive **NCCER Electrical - Level 4 (PostSecondary)** certification, which covers advanced commercial and industrial electrical systems, load calculations, and National Electrical Code (NEC) compliance.

Enterprise Network and Server Support Technology

Length: 750 hours / 30 weeks
Enrollment: Twice a year (August & January)
Program Number: Y300500
Enrollment Periods: 2: 375 hours, 375 hours

Basic Skill Level Requirements: Computation 10,
Communications 10



The Enterprise Network and Server Support Technology program trains students to engineer, deploy, and manage commercial enterprise-grade network architectures and corporate servers. The program focuses heavily on configuring routing infrastructures, deploying server operating systems, managing directory services, and locking down enterprise data environments.

Students train within specialized routing and switching virtualization environments to mirror modern corporate infrastructure topologies. This program is tailored for individuals aiming for careers as system administrators or network engineers, offering direct preparation for advanced industry-level networking certs.

Enterprise Network and Server Support Technology program Y300500 structure:

Course Number	Course Title	Course Length	OCP	Credits
CTS0099	Advanced Networking Fundamentals	150 hours	A	1
This course delivers foundational knowledge in advanced enterprise networking architectures and baseline infrastructure components. Students learn to analyze enterprise scenarios to design small business network implementation plans, identify key hardware and routing elements, evaluate physical and software security risks, and examine the core professional responsibilities of a network systems engineer.				
CTS0094	Interconnecting Cisco Network Devices	600 hours	B	4
This specialized track focuses on enterprise routing, switching architectures, and modern data transmission networks. Students develop advanced diagnostic troubleshooting skills in local area networks (LANs), IPv4/IPv6 address sub-netting, wide area networks (WANs), and unified network configurations in direct alignment with Cisco Certified Network Associate (CCNA) criteria.				

Program Credentials & Certifications

Students enrolled in the Enterprise Network and Server Support Technology program have the opportunity to prepare for and earn industry-recognized credentials from the following certifying organization:

-  **Cisco Systems, Inc.** – A premier global leader in networking infrastructure. The curriculum aligns directly to prepare students to challenge the **Cisco Certified Network Associate (CCNA)** examination, validating professional-level competencies in enterprise routing and switching, network security baselines, IP connectivity, and modern network virtualization protocols.

Heating, Ventilation, Air-Conditioning/Refrigeration (HVAC/R) 1

Length: 750 hours / 30 weeks
Enrollment: Twice a year (August & January)
Program Number: C400410
Enrollment Periods: 2; 375 hours, 375 hours



The HVAC/R 1 program establishes the essential foundational knowledge required to enter the air conditioning, heating, and refrigeration mechanical workforce. Instruction centers on electrical fundamentals, refrigeration cycle theory, safe tool usage, blueprint interpretations, and basic residential equipment installations.

Students spend extensive time in hands-on labs mastering copper brazing, system evacuation, and core safety procedures. Completion of this first block readies the student for entry-level component assembly and sets up the necessary skills required for the EPA Section 608 certification exam.

Basic Skill Level Requirements: Computation 10, Communications 9.

Heating, Ventilation, Air-Conditioning/Refrigeration (HVAC/R) 1 program C400410 structure:

Course Number	Course Title	Course Length	OCP	Credits
ACR0000	Introduction to HVAC/R	250 hours	A	1.5
This course serves as the introduction to the HVAC/R industry, emphasizing workspace health, safety standards, and environmental management compliance. Students master tool handling, basic mathematics calculations for construction, properties of matter, and heat transfer theory, alongside fundamental fluid dynamics, system pressures, and baseline electrical principles.				
ACR0001	HVAC/R Fundamentals	250 hours	B	1.5
Students transition into the primary core mechanisms of climate control systems. Training focuses heavily on electrical generation components, piping fabrication, and wiring layouts for cooling equipment, while preparing students to master refrigerant recovery, system evacuations, charging procedures, and the EPA Section 608 regulatory exam.				
ACR0012	HVAC/R Service Practices	250 hours	C	1.5
This course focuses on practical troubleshooting and the maintenance of modern indoor environmental configurations. Students gain hands-on practice testing solid-state electronic controls, servicing motors, diagnosing electrical control setups, interpreting construction documents, and simulating full start-up actions for residential installations.				

Program Credentials & Certifications

Students enrolled in the HVAC/R 1 program have the opportunity to prepare for and earn industry-recognized credentials and licenses from the following organizations:

-  **HVAC Excellence (ESCO Group)** – A national organization providing standardized testing to measure a student's workforce readiness. The curriculum aligns with multiple **Employment Ready** verification tracks, including Air Conditioning, Heat Pump, Electrical, Gas Heat, Light Commercial Air Conditioning, and Light Commercial Refrigeration.
-  **U.S. Environmental Protection Agency (EPA)** – A mandatory, federally regulated certification track. The program prepares students to challenge the **EPA Section 608 Technician Certification**, which is a legal requirement for any technician who maintains, services, repairs, or disposes of equipment that could release ozone-depleting refrigerants into the atmosphere.

Heating, Ventilation, Air-Conditioning/Refrigeration (HVAC/R) 2

Length: 600 hours / 24 weeks

Enrollment: Twice a year (August & January)

Program Number: C400420

Enrollment Periods: 2; 300 hours, 300 hours

The HVAC/R 2 program acts as the advanced completion sequence designed to build high-level troubleshooting and system diagnostic expertise. This program focuses heavily on commercial refrigeration systems, advanced heat pump operations, electronic controls, and automated energy management configurations.

Students focus on deep-level diagnostic routines, air balancing calculations, and complex system retrofits. Graduates exit this advanced block fully prepared to enter the workforce as service technicians capable of managing complex HVAC/R systems across residential, commercial, and industrial operations.



Basic Skill Level Requirements: Computation 10, Communications 9.

Heating, Ventilation, Air-Conditioning/Refrigeration (HVAC/R) 2 program C400420 structure:

Course Number	Course Title	Course Length	OCP	Credits
ACR0013	HVAC/R Intermediate Service Practices	250 hours	A	1.5
This advanced course moves students into commercial HVAC/R application standards. Instruction focuses on the selection of commercial compressors, testing and adjusting evaporative condensers, and operating specialized commercial testing equipment. Students develop precision skills in maintaining, troubleshooting, and repairing light commercial heating and cooling assemblies under rigorous safety guidelines.				
ACR0044	HVAC/R Advanced Service Practices	350 hours	B	2
As the final technical block in the sequence, students master complex enterprise climate architectures. Training delivers hands-on instruction in industrial electrical generation and distribution components, complex building layout drawings, hydronic systems, refrigeration-system vibration controls, and commercial pipe-sizing procedures. Coursework highlights next-generation variable-speed motors, desiccant systems, and alternative heat-pipe technologies.				

Program Credentials & Certifications

Students enrolled in the HVAC/R 2 program have the opportunity to prepare for and earn industry-recognized credentials and licenses from the following organizations:

-  **HVAC Excellence (ESCO Group)** – A national organization providing standardized testing to measure a student's workforce readiness. The curriculum aligns with multiple **Employment Ready** verification tracks, including Air Conditioning, Heat Pump, Electrical, Gas Heat, Light Commercial Air Conditioning, and Light Commercial Refrigeration.
-  **U.S. Environmental Protection Agency (EPA)** – A mandatory, federally regulated certification track. The program prepares students to challenge the **EPA Section 608 Technician Certification**, which is a legal requirement for any technician who maintains, services, repairs, or disposes of equipment that could release ozone-depleting refrigerants into the atmosphere.

Marine Service Technologies

Length: 1350 hours / 54 weeks
Enrollment: Twice a year (August & January)
Program Number: T400210
Enrollment Periods: 3: 450 hours, 450 hours, 450 hours



The Marine Service Technologies program delivers the full spectrum of technical skills required to succeed in Florida's booming recreational maritime industry. Students receive interactive training on outboard motors, inboard gas engines, marine drive train configurations, and commercial diesel propulsion units.

Beyond core mechanical repairs, the curriculum dives into marine electrical setups, fiberglass repair basics, boat trailers, and routine marine plumbing/accessory installations. This comprehensive training prepares students to step directly into service roles at coastal marinas, private dealerships, and marine manufacturing companies.



Basic Skill Level Requirements: Computation 10, Communications 10.

Marine Service Technologies program T400210 structure:

Course Number	Course Title	Course Length	OCP	Credits
MTE0003	Marine Rigger	300 hours	A	2
This introductory course establishes a comprehensive understanding of marine workplace safety and service bay organization. Students master utility trailer adjustments, basic fabrication with marine woods, metals, and fiberglass, along with entry-level service on basic two-stroke outboard engines, boat electrical components, onboard fuel systems, and final customer delivery checks.				
MTE0090	Outboard Engine Technician	300 hours	B	2
Students transition into comprehensive powerhead servicing, exploring the foundational theory and operation of modern four-stroke cycle outboard engines. Hands-on lab work focuses on troubleshooting and repairing outboard charging mechanisms, battery ignition layouts, cranking arrays, lubrication loops, cooling configurations, and complete lower gear case assemblies.				
MTE0074	Outboard Engine Diagnostics Technician	150 hours	C	1
This course develops technical proficiency in tracking and neutralizing faults on advanced propulsion units using computer-based diagnostic systems. Instruction emphasizes reading digital dashboard layouts, calibrating electronic control boxes, programming digital marine gauges, checking capacitor discharge ignition (CDI) systems, and utilizing computerized parts-catalog specialist networks.				
MTE0092	Inboard Gas Engine Technician	300 hours	D	2
Technical competencies expand into multi-cylinder inboard gas engine platforms. Training details complete breakdown and maintenance practices for traditional four-stroke inboard marine blocks, including advanced fuel distribution configurations, inboard closed cooling systems, lubrication routing, and electronic ignition setup parameters.				
MTE0093	Drive Train Technician	150 hours	E	1
Students explore marine power transfer and propulsion systems. Coursework highlights diagnostic service on stern drive upper and lower gear cases, midsection intermediate housing alignment, and specialized inboard gas transmissions, preparing technicians to correctly balance structural propeller torque with overall drive unit configuration.				
MTE0056	Inboard Diesel Technician	150 hours	F	1
The final course in the sequence covers heavy-duty commercial marine power, focusing on inboard diesel technology. Students learn the unique mechanical properties of diesel cycles, mastering the service, timing, and optimization of diesel fuel delivery systems, specialized raw-water cooling loops, high-capacity lubrication layouts, and heavy-duty marine charging modules.				

Program Credentials & Certifications

Students enrolled in the Marine Service Technologies program have the opportunity to prepare for and earn industry-recognized credentials from the following certifying organizations and manufacturers:

-  **ABYC (American Boat and Yacht Council)** – The premier standard-setting body for global marine manufacturing and repair. Curriculum tracks prepare students for foundational certifications in **Marine Composites** and **Marine Electrical** systems.
-  **YAMAHA Yamaha Motor Corporation** – Industry-recognized manufacturer training pathways allowing students to earn specialized Marine Maintenance Certifications covering **Inline**, **Mid-Range**, **Portable**, and **V-Engine** outboard motor platforms.
-  **Suzuki Motor USA** – Manufacturer-specific technician training preparing students to challenge and achieve **Suzuki Tech Level 1** and **Suzuki Tech Level 2** marine service credentials.
-  **Mercury Marine** – Global propulsion manufacturer certification track enabling students to complete the **Mercury (Level 100) Marine Service Technician (MST)** credential.

Master Automotive Service Technology 1

Length: 1050 hours / 42 weeks
Enrollment: Twice a year (August & January)
Program Number: T400700
Enrollment Periods: 3: 450 hours, 450 hours, 150 hours



The Master Automotive Service Technology 1 (MAST 1) program provides the bedrock competencies necessary to become a certified automotive service professional. Instruction addresses core diagnostic systems including foundation braking mechanisms, steering and suspension geometry, electrical/electronic layouts, and internal engine repair.

Through live shop diagnostic simulations, students learn to interpret modern vehicle computer scan data and execute precision mechanical adjustments. This program functions as the prerequisite foundation for MAST 2 specialized training, helping students move toward multi-area ASE certification.

Basic Skill Level Requirements: Computation 10, Communications 9.

Master Automotive Service Technology 1 program T400700 structure:

Course Number	Course Title	Course Length	OCP	Credits
AER0014	Automobile Services Assistor	300 hours	A	2
This course serves as the introduction to the automotive service industry, prioritizing industrial safety regulations and professional workshop layout. Students develop precision skills in equipment handling, routine maintenance configurations, and fluid diagnostics, while mastering basic shop calculations, multi-point visual inspection procedures, and foundational customer service communication protocols.				
AER0418	Automotive Brake System Technician	150 hours	B	1
Students specialize in the critical diagnostic troubleshooting, servicing, and repair of modern vehicle braking configurations. Intensive lab instruction covers complete drum and disc brake assemblies, hydraulic routing systems, power-assist booster mechanisms, electronic braking layouts, and advanced traction and stability control modules.				
AER0453	Automobile Suspension and Steering Technician	150 hours	C	1
This course focuses on the mechanical principles governing vehicle control, ride safety, and stabilization. Training delivers hands-on experience in analyzing and servicing front and rear suspension architectures, steering linkages, power-steering gears, and modern wheel and tire assemblies, with emphasis on executing computerized multi-wheel alignments.				
AER0360	Automotive Electrical/Electronic System Technician	300 hours	D	2
Students examine the intricate electrical networks built into modern vehicles, utilizing precision digital multimeters and scan tools. Topics cover automotive battery systems, starting and charging mechanisms, lighting arrays, electronic gauge clusters, driver information displays, wiper/washer wiring, and secondary vehicle accessory systems.				
AER0110	Engine Repair Technician	150 hours	E	1
This final block details the structural breakdown, measuring, and reconditioning of internal combustion engines. Coursework focuses on complete diagnostics and mechanical repair of engine blocks, cylinder heads, complex valve trains, lubrication pathways, and thermal engine cooling systems.				

Program Credentials & Certifications

Students enrolled in the Master Automotive Service Technology 1 program have the opportunity to prepare for and earn industry-recognized credentials from the following certifying organizations:

-  **Automotive Service Excellence (ASE)** – Industry-standard professional certifications validating advanced mechanical expertise. The curriculum comprehensively prepares students to challenge the core Automobile & Light Truck Technician series (**A1 through A8**), the Advanced Engine Performance Specialist certification (**L1**), and the Automobile Service Consultant track (**C1**).
-  **U.S. Environmental Protection Agency (EPA)** – A federally mandated environmental safety certification. The program prepares students to challenge the **EPA Section 609 Technician Certification**, which is legally required to service, repair, or safely handle refrigerants within automotive motor vehicle air conditioning (MVAC) systems.

Master Automotive Service Technology 2

Length: 750 hours / 30 weeks
Enrollment: Twice a year (August & January)
Program Number: T400800
Enrollment Periods: 2: 375 hours, 375 hours



Basic Skill Level Requirements: Computation 10, Communications 9.

The Master Automotive Service Technology 2 (MAST 2) program builds directly upon the MAST 1 foundation, taking students into the advanced diagnostic realms of the automotive service industry. This program focuses on highly specialized vehicle performance topics: computer engine controls, automated transmissions/transaxles, manual drivetrains, and complex climate control systems.

Students use top-tier diagnostic equipment to locate, diagnose, and resolve deep-level electrical and drivability issues. Graduates complete this program fully equipped to pass master-level ASE certifications and step into high-tier technician roles at modern repair facilities.

Master Automotive Service Technology 2 program T400800 structure:

Course Number	Course Title	Course Length	OCP	Credits
AER0503	Automotive Engine Performance Technician	300 hours	A	2
Students develop advanced diagnostic proficiency in managing internal combustion efficiency and vehicle drivability. Intensive instruction details the troubleshooting, service, and complex repair of ignition systems, fuel delivery loops, air induction networks, exhaust mechanisms, on-board vehicle computers, and integrated emission control networks under strict personal and environmental safety guidelines.				
AER0257	Automatic Transmission and Transaxle Technician	150 hours	B	1
This course covers the structural components, theory of operation, and specialized overhaul processes for automatic powertrains. Lab training prioritizes advanced diagnostic strategies, hydraulic pressure testing, electronic control system analysis, and the physical removal, disassembly, rebuilding, and reinstallation of modern automatic transmissions and transaxles.				
AER0274	Manual Drivetrain and Axle Technician	150 hours	C	1
Students examine the mechanical distribution of power across manual drivetrain layouts. Coursework delivers hands-on expertise in diagnosing and servicing manual transmissions, clutch assemblies, drive shafts, constant-velocity (CV) joints, universal joints, differential gear networks, transfer cases, and four-wheel-drive/all-wheel-drive systems.				
AER0172	Automotive Heating and Air Conditioning Technician	150 hours	D	1
This final block focuses on the inspection, diagnostic isolation, and repair of climate control systems. Training highlights HVAC/R component service—including compressors, evaporators, condensers, and expansion valves—alongside electronic control heating modules, multi-zone air distribution ducting, and strict regulatory methods for safe refrigerant recovery and recycling.				

Program Credentials & Certifications

Students enrolled in the Master Automotive Service Technology 2 program have the opportunity to prepare for and earn industry-recognized credentials from the following certifying organizations:

-  **Automotive Service Excellence (ASE)** – Industry-standard professional certifications validating advanced mechanical expertise. The curriculum comprehensively prepares students to challenge the core Automobile & Light Truck Technician series (**A1 through A8**), the Advanced Engine Performance Specialist certification (**L1**), and the Automobile Service Consultant track (**C1**).
-  **U.S. Environmental Protection Agency (EPA)** – A federally mandated environmental safety certification. The program prepares students to challenge the **EPA Section 609 Technician Certification**, which is legally required to service, repair, or safely handle refrigerants within automotive motor vehicle air conditioning (MVAC) systems.

Medical Administrative Specialist

Length: 1050 hours / 35 weeks
Enrollment: Twice a year (August & January)
Program Number: B070300
Enrollment Periods: 2; 525 hours, 525 hours



The Medical Administrative Specialist program trains students for the multifaceted administrative roles within modern hospitals, clinics, and private medical practices. Students build a dual skill set that combines professional business communication with specialized medical office workflows, legal compliance, and digital productivity.

The curriculum covers healthcare billing concepts, electronic health records (EHR) navigation, medical transcription practices, and front-desk reception leadership. Graduates emerge ready to efficiently manage front-of-house operations while upholding absolute HIPAA compliance and patient data privacy.

Basic Skill Level Requirements: Computations: 10, Communications: 10.

Medical Administrative Specialist program B070300 structure:

Course Number	Course Title	Course Length	OCP	Credits
OTA0040	Information Technology Assistant *	150	A	1
This course provides the technological foundation required for modern business environments. Students develop proficiency in touch keyboarding and advance to creating professional documents using word processing, spreadsheet, presentation, database, and electronic communications software. Training highlights proper digital workplace ergonomics, information networks, electronic data management, and collaborative office communication techniques.				
OTA0041	Front Desk Specialist	300	B	2
Students transition into patient-facing administrative functions, focusing on reception skills and front-office organization. Coursework delivers hands-on instruction in managing multi-line phone networks, scheduling client appointments, processing incoming and outgoing mail, maintaining receptionist records, and applying targeted customer service strategies to maximize overall healthcare office productivity.				
OTA0631	Medical Office Technologist	300	C	2
This course bridges standard administrative operations with specialized medical technologies. Students master foundational medical terminology, anatomy concepts, and healthcare delivery systems while learning to operate electronic health record (EHR) systems. Instruction focuses on inputting patient demographic profiles, transcribing machine-dictated medical documents, navigating basic insurance claims, and following privacy regulations.				
OTA0651	Medical Administrative Specialist	300	D	2
As the final course in the sequence, students prepare for supervisory administrative roles within clinical, hospital, or insurance environments. Training covers complex medical office financial management, professional leadership practices, conflict resolution, business ethics, and institutional risk management, concluding with comprehensive career development and employability training.				

* Note: OTA0040 is a core course.

Program Credentials & Certifications

Students enrolled in the Medical Administrative Specialist program have the opportunity to prepare for and earn industry-recognized credentials from the following certifying organizations:

-  **National Healthcareer Association (NHA)** – A premier national allied health credentialing agency. The curriculum comprehensively aligns to prepare students to challenge both the **Certified Medical Administrative Assistant (CMAA)** credential for front-office medical operations and the **Certified Electronic Health Record Specialist (CEHRS)** credential for managing compliant electronic medical data.
-  **American Heart Association (AHA)** – The leading national authority on cardiovascular care training. Students complete emergency readiness modules to earn the professional **CPR Basic Life Support (BLS)** certification, a mandatory requirement for working within healthcare facilities.

Patient Care Technician (New 2026-2027)

Length: 600 hours / 18 weeks
Enrollment: Twice a year (August & January)
Program Number: H700600
Enrollment Periods: 2: 300 hours, 300 hours



The newly updated Patient Care Technician program delivers advanced, multi-skilled medical training designed to prepare students for direct bedside patient care across acute and long-term care environments. The program expands progressively from basic nurse aide and home health skills into specialized technician protocols, including basic electrocardiograph (EKG) monitoring, phlebotomy procedures, and advanced restorative rehabilitation practices.

Students engage in practical training within mock clinical laboratories and live healthcare facilities to develop patient communication skills and technical accuracy. Graduates are eligible to challenge the Florida Certified Nursing Assistant (CNA) exam and work as versatile healthcare partners in hospitals, rehabilitation centers, and specialized medical clinics.

Basic Skill Level Requirements: Computation 10, Communications 10.

Patient Care Technician program H700600 structure:

Course Number	Course Title	Course Length	OCP
HCP0124	Nurse Assistant	165 hours	A
This course introduces foundational nursing skills required to deliver high-quality personal care to patients in both acute and long-term care settings. Training emphasizes strict infection control, blood-borne pathogen safety, emergency response protocols, patient rights, legal and ethical responsibilities, and nutritional management. Students develop hands-on clinical competency in preparing for the Florida Certified Nursing Assistant (CNA) exam.			
HCP0333	Accelerated Home Health Aide	25 hours	B
This accelerated module expands the nursing assistant's scope of practice into home health-care environments. Instruction focuses on specialized home health services, adapting basic nursing care to domestic settings, implementing independent living support plans, utilizing residential medical equipment, and mastering distinct home-care verbal and written reporting methods.			
HCP0021	Patient Care Assistant	45 hours	C
Students advance their cross-training by mastering nursing assistant procedures tailored specifically for complex hospital environments and diverse adult patient populations. Lab work and clinical application focus on physical comfort management, advanced safety mechanisms, continuous patient monitoring, and executing specialized assistant-level tasks following structured patient care plans.			
HSC0012	Allied Health Assistant	100 hours	D
This course develops technical proficiency across multiple allied health sub-specialties based on local medical market demands. Training highlights precise medical terminology, comprehensive subjective and objective data collection, multi-cultural patient communication, and basic diagnostic assistance—including blood pressure mapping, pulse oximetry tracking, and oxygen saturation reporting.			
MEA0585	Advanced Allied Health Assistant	200 hours	E
This advanced clinical course delivers deeper technical training in designated allied health diagnostic areas. Students undergo rigorous laboratory simulations and supervised clinical rotations to master advanced patient care procedures, diagnostic equipment calibration, therapeutic support techniques, and point-of-care testing methodologies within allied health teams.			
PRN0095	Patient Care Technician	65 hours	F
As the final capstone course of the sequence, instruction integrates advanced nursing and allied health competencies into a cohesive professional practice. Training prioritizes organizational healthcare layouts, effective interdisciplinary team communications, and clinical problem-solving, culminating in comprehensive workplace readiness and final prep for advanced patient care certifications.			

Program Credentials & Certifications

Students enrolled in the Patient Care Technician program have the opportunity to prepare for and earn industry-recognized credentials from the following certifying organizations:

-  **National Healthcareer Association (NHA)** – A leading national credentialing body for allied health professionals. The curriculum comprehensively prepares students to challenge a multi-layered certification track, including the **Certified Patient Care Technician/Assistant (CPCT/A)** for advanced bedside care, the **Certified EKG Technician (CET)** for cardiovascular monitoring, and the **Certified Phlebotomy Technician (CPT)** for clinical blood collection.
-  **National Center for Competency Testing (NCCT)** – An independent, national independent credentialing organization. The program aligns to provide students an additional pathway to challenge and earn the accredited **National Certified Patient Care Technician (NCPCT)** credential, validating comprehensive safety, intake, and multi-disciplinary clinical care competencies.

Practical Nursing

Length: 1350 hours / 42 weeks
Enrollment: Twice a year (August & January)
Program Number: H170607
Enrollment Periods: 3; 450 hours, 450 hours, 450 hours
License Preparation Program



The Practical Nursing program provides the intensive theoretical knowledge and hands-on clinical training required to enter the healthcare field as a Licensed Practical Nurse (LPN). The curriculum focuses heavily on the clinical judgment measurement model, covering medical-surgical nursing, pharmacology and safe medication administration, intravenous (IV) access therapy, pediatric and obstetric care, and geriatric nursing concepts.

Approved by the Florida Board of Nursing, this program splits its instructional hours evenly between classroom/laboratory theory and live clinical rotations in hospitals and long-term care facilities. Graduates are fully prepared to sit for the National Council Licensure Examination for Practical Nurses (NCLEX-PN) to secure immediate licensure and employment. Applicants must be at least 18 years of age.

Students interested in this program have additional requirements, including background checks and a selection process. For further information, checklist, and entry requirements please see the Practical Nursing program web page on Haney's web site at haney.edu.

Basic Skill Level Requirements: Computations: 11, Communications: 11 (both Level A).

Practical Nursing program H170607 structure:

Course Number	Course Title	Length	OCP
PRN0098	Practical Nursing (PN) Foundations 1	300 hours	A
This introductory course establishes the core theoretical and laboratory concepts required for entry-level nursing. Instruction covers the structure of the modern healthcare system, human anatomy and physiology, baseline nutrition, and restorative activities, with heavy emphasis on workspace safety, infection control, aseptic techniques, and legal/ethical scopes of practice.			
PRN0099	Practical Nursing (PN) Foundations 2	300 hours	B
Students advance into intermediate nursing procedures and clinical applications within acute care settings. Coursework highlights human growth and development across the lifespan, mental health and biosocial support mechanisms, community health awareness, and foundational principles of pharmacology and safe medication administration.			
PRN0290	Practical Nursing (PN) Medical Surgical 1	300 hours	
This course utilizes the Clinical Judgment Measurement Model to guide the care of adult patients experiencing acute medical-surgical alterations. Lab simulations and hands-on clinical rotations focus on systematic data collection, fluid/electrolyte balances, and perioperative nursing care for pre- and post-operative clients with cardiovascular, respiratory, musculoskeletal, endocrine, and integumentary disorders.			
PRN0291	Practical Nursing (PN) Medical Surgical 2	300 hours	
Elevating medical-surgical competencies, this course emphasizes complex patient care coordination and advanced disease management. Training centers on advanced diagnostics, specialized treatment interventions, and clinical interventions for complex alterations within the gastrointestinal, neurological, urinary, and reproductive systems, utilizing Electronic Health Record (EHR) documentation standards.			
PRN0690	Practical Nursing (PN) Transition to Practice	150 hours	
The final capstone course integrates specialized maternal, newborn, and pediatric nursing care with advanced transitional skills. Training delivers extensive instruction in safe intravenous (IV) access and IV medication administration protocols, concluding with comprehensive employability strategies, professional leadership concepts, and intensive preparation for the National Council Licensure Examination (NCLEX-PN).			

Articulation: Students may be considered for up to 17 credit hours at Gulf Coast State College.

Program Credentials & Certifications

Students enrolled in the Practical Nursing program are prepared to challenge the state-level examination and meet the licensure requirements of the following governing agencies:

-  **NCSBN Florida Board of Nursing & NCSBN** – The regulatory bodies governing nursing practice and safety standards. Successful completion of the program fulfills the mandatory clinical and educational requirements to sit for the official **NCLEX-PN (National Council Licensure Examination for Practical Nurses)**, leading directly to the **Florida Licensed Practical Nurse (LPN) License** required to legally practice nursing within the state
-  **NCSBN Florida Board of Nursing & NCSBN** – The regulatory bodies governing nursing practice and safety standards. The curriculum provides dual professional licensure pathways, enabling eligible students to challenge the **Florida Certified Nursing Assistant (CNA)** examination as an embedded milestone, alongside comprehensive preparation for the official **NCLEX-PN (National Council Licensure Examination for Practical Nurses)** required to legally practice as a **Licensed Practical Nurse (LPN)** within the state.



Welding Technology

Length: 1050 hours / 35 weeks
Enrollment: Twice a year (August & January)
Program Number: J400400
Enrollment Periods: 2; 525 hours, 525 hours



The Welding Technology program provides comprehensive, hands-on training across all primary industrial welding methodologies. Students learn structural blueprint reading, basic metal fabrication, Shielded Metal Arc Welding (SMAW/Stick), Gas Metal Arc Welding (GMAW/MIG), and Flux-Cored Arc Welding (FCAW).

The curriculum heavily emphasizes industrial safety regulations, machine setup parameters, and vertical/overhead welding joint positions. Graduates leave the program with structural plate certifications that match standard American Welding Society (AWS) requirements, paving the way for immediate field employment.

Basic Skill Level Requirements: Computations: 9, Communications: 9

Welding Technology program J400400 structure:

Course Number	Course Title	Course Length	OCP	Credits
PMT0070	Welder Assistant 1	150 hours	A	1
This course introduces students to the foundational safety and operational frameworks of the welding industry. Training prioritizes specialized workspace organization, hazard identification, and personal protective equipment (PPE) criteria. Students master the handling of primary hand and power tools, basic manufacturing processes, metal identification systems, and fundamental blueprint reading techniques using standard American Welding Society (AWS) symbols.				
PMT0071	Welder Assistant 2	150 hours	A	1
Building directly on structural foundations, this course focuses on advanced joint design, layout, and precision thermal cutting processes. Intensive laboratory training equips students to safely configure and operate manual oxyfuel gas cutting, machine-driven oxyfuel cutting (track burners), plasma arc cutting (PAC), and air carbon arc gouging (CAG) equipment on carbon steel structures.				
PMT0072	Welder, SMAW 1	150 hours	B	1
This course initializes technical competency in Shielded Metal Arc Welding (SMAW). Instruction details equipment setup, power source adjustments, and electrode selection criteria. Students gain extensive hands-on laboratory experience performing pad welds, fillet welds, and open-root groove welds on plain carbon steel plates in flat, horizontal, and vertical positions.				
PMT0073	Welder, SMAW 2	150 hours		1
Students advance to specialized, industrial-level SMAW operations. Training emphasizes out-of-position plate welding, root-pass techniques, and structural multi-pass procedures, while teaching students to apply visual examination criteria to evaluate weld quality, neutralize structural discontinuities, and manage code-compliant weld profiles.				
PMT0074	Welder	450 hours	C	3
The final capstone block cross-trains students in advanced gas-shielded processes. Students master setup, gas selection, and wire-feed techniques for Gas Metal Arc Welding (GMAW/MIG), Flux-Cored Arc Welding (FCAW), and Gas Tungsten Arc Welding (GTAW/TIG). Coursework covers multi-position welding on carbon steel, aluminum, and stainless steel, concluding with strict testing blueprints to prepare students for AWS Welder Certification.				

Program Credentials & Certifications

Students enrolled in the Welding Technology program have the opportunity to prepare for and earn industry-recognized credentials from the following certifying organization:



- **American Welding Society (AWS)** – The premier international authority on welding codes, standards, and professional certifications. The curriculum comprehensively prepares students to challenge both **SENSE Level 1 (Entry Welder)** and **SENSE Level 2 (Advanced Welder)** educational tracks, alongside performance-based qualifications to earn **AWS Certified Welder** credentials across industry-critical structural disciplines including FCAW Plate, GMAW Plate, SMAW Pipe, SMAW Plate, and GTAW Plate.



Welding Technology – Advanced

Length: 750 hours / 25 weeks
Enrollment: Twice a year (August & January)
Program Number: J400410
Enrollment Periods: 2; 375 hours, 375 hours

The Welding Technology - Advanced program builds upon foundational plate welding skills to train students for highly specialized industrial pipe welding careers. The curriculum centers on Gas Tungsten Arc Welding (GTAW/TIG) methods and heavy-duty pipe fabrication using both carbon steel and alloy materials.

Students train intensely across specialized pipe positions (2G, 5G, and 6G configurations) to mirror the strict testing conditions found in the aerospace, petrochemical, and construction industries. This program prepares advanced welders to challenge high-tier AWS certifications and secure premium industrial fabrication positions.



The standard length of this program is 750 hours. **Welding Technology** is a core program. It is recommended that students successfully complete **Welding Technology** or demonstrate mastery of the outcomes in that program prior to enrollment in the **Welding Technology - Advanced** program.

Basic Skill Level Requirements: Computations: 9, Communications: 9

Welding Technology - Advanced program **J400410** structure:

Course Number	Course Title	Course Length	OCP	Credits
PMT0075	Advanced Welder 1	600 hours	A	4
This advanced course introduces students to high-skill pipe welding and specialized industrial fabrication. Intensive hands-on instruction focuses on preparing, fitting, and welding carbon steel pipe spools using Shielded Metal Arc Welding (SMAW) and Gas Tungsten Arc Welding (GTAW) processes in 1G, 2G, 5G, and 6G positions. Students master the interpretation of isometric piping schematics, pipe-fitting layout calculations, and strict destructive and non-destructive weld testing procedures under ASME Section IX and AWS D1.1 codes.				
PMT0076	Advanced Welder 2	150 hours	B	1
As the final capstone block of the advanced sequence, students master specialized alloy processing and automated manufacturing technologies. Training delivers advanced expertise in welding stainless steel, aluminum, and exotic metals using specialized gas-shielded parameters. Coursework details advanced fixture fabrication techniques, the programming and operation of Computer Numerical Controlled (CNC) plasma cutting systems, and an introduction to robotic and semi-automatic welding interfaces used in modern industrial sectors.				

Program Credentials & Certifications

Students enrolled in the Welding Technology - Advanced program have the opportunity to prepare for and earn industry-recognized credentials from the following certifying organization:



- American Welding Society (AWS)** – The premier international authority on welding codes, infrastructure standards, and professional credentials. This advanced curriculum prepares students to challenge rigorous, performance-based qualifications to earn elite **AWS Certified Welder** credentials across specialized pipe welding disciplines, including GTAW Pipe (Carbon Steel), GTAW Pipe (Stainless Steel to Carbon Steel), GTAW Pipe (Stainless Steel), GTAW/SMAW Pipe (Carbon Steel), and GTAW/SMAW Pipe (Chrome PWHT).

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