

# 2017-2018 STC Catalog & Handbook

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## **INDUSTRIAL AND ENVIRONMENTAL TECHNOLOGIES**

Rapid advancements in the Industrial Technologies areas make the need for current education and training essential. Southeastern Tech's Industrial Technologies programs combine classroom study and practical training emphasizing skill development, related technical knowledge, and general education.

Southeastern Tech offers a wide selection of degrees, diplomas and certificates. These programs are offered on both a full-time and part-time basis.

### **General Education Core Competencies**

The overall goal of a college education is to help students become productive citizens. The General Education core contributes to this concept by providing a variety of learning experiences which ensure that graduates are intellectually prepared for lifelong learning.

STC has identified the following general education core competencies that graduates will attain.

- The ability to utilize standard written English.
- The ability to solve practical mathematical problems.
- The ability to read, analyze, and interpret information.

### **Capstone Courses**

An integral part of a student's education as they move through a given program of study is the ability to transfer and apply knowledge to the workplace. As a key component of degree, diploma and select technical certificates, capstone courses have been identified which include any of the following: a specific exit exam, project, portfolio, or skills check-off, etc. measuring student knowledge. When students are able to pass the exit assessment, they demonstrate they have retained knowledge throughout their program of study which will carry over to their chosen career. Students who do not pass the exit assessment will not be able to graduate and the capstone course will need to be repeated and passed along with the exit assessment.

In instances in which a student transfers from another college (having taken a course there-which is a capstone course here) into the same program at STC, they will need to complete STC's program exit assessment. This will be a requirement before credit for the course is given. In cases in which a student transfers from another college that has a capstone course for same program, the student will need to take the exit assessment for STC's designated capstone course. Students who do not pass this assessment will not be able to graduate and the capstone course will need to be repeated and passed along with the exit assessment.

For any questions regarding STC's capstone courses, please see your program advisor.

**VIDALIA CAMPUS**  
**ELECTRONICS TECHNOLOGY ASSOCIATE OF APPLIED SCIENCE DEGREE**  
**PROGRAM**

**Major Code ET13**

The Electronics Technology Associate degree program is a sequence of courses designed to prepare students for careers in electronics technology professions. Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of electronics technology theory and practical application necessary for successful employment using both manual and computerized electronics systems. Final exams for the four major electronics areas are the Electronics Systems Associate ESA-1 through ESA-4 exams.

**EMPLOYMENT OPPORTUNITIES**

Program graduates receive an Electronics Technology Associate of Applied Science Degree, which qualifies them as electronics technicians with a specialization in computer electronics or industrial electronics. Graduates who have scored >75% on their four ESA exams will also receive their Associate CET license from the International Society of Certified Electronics Technicians (ISCET).

**ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	64	70		57
ASSET	41	40		42
COMPASS	79	62		37
SAT	26	26		24
ACT	17	16		19

**ELECTRONICS TECHNOLOGY CURRICULUM**

The standard curriculum for the Electronics Technology Associate of Applied Science degree program is designed for the semester system. Students may enter the program beginning any semester. The program generally takes 5 semesters to complete. To graduate, students must earn a minimum of 64-66 credit hours for the industrial electronics option or a minimum of 67 credit hours for the computer electronics option.

## CURRICULUM OUTLINE

### **GENERAL EDUCATION CORE COURSES and CREDIT HOURS (18 Hours Required)**

COLL 1040	College Foundations (Institutional Credit Only)	3 Credit Hours
ENGL 1101	Composition and Rhetoric	3 Credit Hours
ENGL 2130	American Literature	3 Credit Hours
OR		
	General Education Course	3 Credit Hours
MATH 1111	College Algebra	3 Credit Hours
MATH 1113	Pre-Calculus	3 Credit Hours
PSYC 1101	Introductory Psychology	3 Credit Hours
OR		
	Comparable General Education Course	3 Credit Hours

### **OCCUPATIONAL COURSES and CREDIT HOURS (30 Hours Required)**

COMP 1000	Introduction to Computer Literacy	3 Credit Hours
ELCR 1005	Soldering Technology	1 Credit Hours
ELCR 1010	Direct Current Circuits	6 Credit Hours
ELCR 1020	Alternating Current Circuits	7 Credit Hours
ELCR 1030	Solid State Devices	5 Credit Hours
ELCR 1040	Digital and Microprocessor Fundamentals	5 Credit Hours
ELCR 1060	Linear Integrated Circuits	3 Credit Hours

### **SPECIALIZATION AREA**

Choose one of the following specializations:

#### **Computer Electronics And Credit Hours (19 Hours Required)**

CIST 1001	Computer Concepts	4 Credit Hours
CIST 1122	Hardware Installation & Maintenance	4 Credit Hours
CIST 1135	Operating Systems and Virtual/Cloud Computing	4 Credit Hours
CIST 1601	Information Security Fundamentals	3 Credit Hours
<i>CHOOSE ONE:</i>		
CIST 2411	Microsoft Client	4 Credit Hours
CIST 2451	Introduction to Networks	4 Credit Hours

#### **Industrial Electronics And Credit Hours (16-18 Hours Required)**

ELCR 2110	Process Controls	3 Credit Hours
ELCR 2130	Programmable Controllers	3 Credit Hours
ELCR 2140	Mechanical Devices	2 Credit Hours
ELCR 2150	Fluid Power	2 Credit Hours
ELCR 2160	Advanced Microprocessors and Robotics	3 Credit Hours
<i>CHOOSE ONE:</i>		
ELCR 2120	Motor Controls	3 Credit Hours
ELTR 1180	Electrical Controls	4 Credit Hours

*CHOOSE ONE:*

ELCR 2130 Programmable Controllers	3 Credit Hours
ELTR 1220 Industrial PLC's	4 Credit Hours

**PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$6,490

Books/Supplies: \$3,271

In addition to regular tuition /fees and book/supply costs for the program, there is a \$35 testing fee for each of the ESA-1 through ESA-4 certification exams for the four major electronics subject areas.

## **VIDALIA CAMPUS - AIR CONDITIONING TECHNOLOGY DIPLOMA PROGRAM** **Major Code ACT2**

The Air Conditioning Technology Diploma program is a sequence of courses that prepares students for careers in the air conditioning industry. Learning opportunities develop academic, occupational, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of air conditioning theory and practical application necessary for successful employment. Program graduates receive an Air Conditioning Technology diploma.

### **EMPLOYMENT OPPORTUNITIES**

The Air Conditioning Technology program is in-tended to produce graduates who are prepared for employment as air conditioning technicians.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	

### **AIR CONDITIONING TECHNOLOGY CURRICULUM**

The standard curriculum for the Air Conditioning Technology diploma program is designed for the semester system. Students may enter the program in any semester. The program generally takes 3 semesters to complete. To graduate, students must earn a minimum of 54 credit hours.

## CURRICULUM OUTLINE

### **GENERAL CORE COURSES and CREDIT HOURS (11 Hours Required)**

COLL 1040	College Foundations (Institutional Credit Only)	3 Credit Hours
EMPL 1000	Interpersonal Relations and Professional Development	2 Credit Hours
ENGL 1010	Fundamentals of English I	3 Credit Hours
MATH 1012	Foundations of Mathematics	3 Credit Hours

### **OCCUPATIONAL COURSES and CREDIT HOURS (43 Hours Required)**

AIRC 1005	Refrigeration Fundamentals	4 Credit Hours
AIRC 1010	Refrigeration Principles and Practices	4 Credit Hours
AIRC 1020	Refrigeration Systems Components	4 Credit Hours
AIRC 1030	HVACR Electrical Fundamentals	4 Credit Hours
AIRC 1040	HVARC Electrical Motors	4 Credit Hours
AIRC 1050	HVARC Electrical Components and Controls	4 Credit Hours
AIRC 1060	Air Conditioning Systems Application and Installation	4 Credit Hours
AIRC 1070	Gas Heat	4 Credit Hours
AIRC 1080	Heat Pumps and Related Systems	4 Credit Hours
AIRC 1090	Troubleshooting Air Conditioning Systems	4 Credit Hours
	Electives	3 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$5,488

Books/Supplies: \$866

## **VIDALIA CAMPUS - AUTOMOTIVE TECHNOLOGY DIPLOMA PROGRAM** **Major Code AT14**

The Automotive Technology Diploma Program is a sequence of courses designed to prepare students for careers in the automotive service and repair profession. Learning opportunities enable students to develop academic, technical and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of automotive mechanics theory and practical application necessary for successful employment. Program graduates receive an Auto Technology diploma that qualifies them as well rounded entry-level technicians.

### **EMPLOYMENT OPPORTUNITIES**

The demand for entry level auto technicians is showing moderate growth. Job growth is predicted to be noticeably higher in the aftermarket and private sectors of the field than it will be in OEM dealerships. Automotive technicians work in a variety of different types of repair shops performing repairs and maintenance on vehicles for customers. Job openings will also be available in auto parts and accessories stores, fleet operations, collision repair shops, government operations, and small service stations.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **AUTOMOTIVE TECHNOLOGY CURRICULUM**

The standard curriculum for the Automotive Technology Diploma Program is designed for the semester system. Students may enter the Automotive Technology program each semester. The program generally takes 5 semesters to complete. To graduate, students must earn a minimum of 55 credit hours.



## CURRICULUM OUTLINE

### **GENERAL CORE COURSES and CREDIT HOURS (11 Hours Required)**

COLL 1040*	College Foundations (Institutional Credit Only)	3 Credit Hours
ENGL 1010	Fundamentals of English I	3 Credit Hours
MATH 1012	Foundations of Mathematics	3 Credit Hours
EMPL 1000	Interpersonal Relations & Professional Development	2 Credit Hours

### **OCCUPATIONAL COURSES and CREDIT HOURS (44 Hours Required)**

AUTT 1010	Automotive Technology Introduction	2 Credit Hours
AUTT 1020	Automotive Electrical Systems	7 Credit Hours
AUTT 1030	Automotive Brake Systems	4 Credit Hours
AUTT 1050	Automotive Suspension and Steering Systems	4 Credit Hours
AUTT 1040	Automotive Engine Performance	7 Credit Hours
AUTT 2020	Automotive Manual Drive Train and Axles	4 Credit Hours
AUTT 2030	Automotive Automatic Transmissions and Transaxles	5 Credit Hours
AUTT 1060	Automotive Climate Control Systems	5 Credit Hours
AUTT 2010	Automotive Engine Repair	6 Credit Hours

\* "C" or higher is required for designated courses.

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$5,651

Books/Supplies: \$1,000

## **SWAINSBORO CAMPUS - DIESEL EQUIPMENT TECHNOLOGY DIPLOMA PROGRAM**

### **Major Code DET4**

The Diesel Equipment Technology diploma program is a sequence of courses designed to prepare students for careers in the diesel equipment service and repair profession. Learning opportunities enable students to develop academic, technical and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of truck, heavy equipment, marine systems, or emergency power generator repair theory and practical application necessary for successful employment depending on the specialization area a student chooses to complete. Program graduates receive a Diesel Equipment Technology diploma that qualifies them as entry-level Diesel Equipment technicians.

### **EMPLOYMENT OPPORTUNITIES**

The Diesel Equipment Technology program is intended to prepare graduates for entry-level jobs in truck service and repair or heavy equipment service and repair.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **DIESEL EQUIPMENT TECHNOLOGY CURRICULUM**

The standard curriculum for the Diesel Equipment Technology Diploma Program is designed for the semester system. Students may enter the Diesel Equipment Technology program each semester. The program generally takes 4 semesters to complete. To graduate, students must earn a minimum of 48 credit hours.

## CURRICULUM OUTLINE

### **GENERAL CORE COURSES and CREDIT HOURS (11 Hours Required)**

COLL 1040*	College Foundations (Institutional Credit Only)	3 Credit Hours
ENGL 1010	Fundamentals of English I	3 Credit Hours
MATH 1012	Foundations of Mathematics	3 Credit Hours
EMPL 1000	Interpersonal Relations & Professional Development	2 Credit Hours

### **OCCUPATIONAL COURSES and CREDIT HOURS (24 Hours Required)**

DIET 1000	Introduction to Diesel Technology, Tools, and Safety	3 Credit Hours
DIET 1010	Diesel Electrical and Electronic Systems	7 Credit Hours
DIET 1020	Preventive Maintenance	5 Credit Hours
DIET 1030	Diesel Engines	6 Credit Hours
DIET 1040	Diesel Truck and Heavy Equipment HVAC Systems	3 Credit Hours

### **SPECIALIZATION AREA**

Choose one of the following specializations:

#### **Medium/Heavy Truck Specialization (12 Hours Required)**

DIET 2000	Truck Steering and Suspension Systems	4 Credit Hours
DIET 2010	Truck Brake Systems	4 Credit Hours
DIET 2020	Truck Drive Trains	4 Credit Hours

#### **Heavy Equipment Specialization (12 Hours Required)**

DIET 2001	Heavy Equipment Hydraulics	6 Credit Hours
DIET 2011	Off Road Drivelines	6 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$4,820

Books/Supplies: \$1,550

ASE Student Certifications Exams: \$30

(This fee will be assessed when a student registers for DIET 1000.)

## **ELECTRICAL CONSTRUCTION TECHNOLOGY DIPLOMA PROGRAM** **Major Code EC12**

The Electrical Construction Technology program provides instruction in the inspection, maintenance, installation, and repair of electrical systems in the residential and commercial industries. A combination of theory and practical application is emphasized to develop academic, technical, and professional knowledge and skills. Program graduates receive a diploma in Electrical Construction Technology.

### **EMPLOYMENT OPPORTUNITIES**

Students completing the Electrical Construction Technology program should be able to find employment with electrical contractors, most state agencies, and power companies.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **ELECTRICAL CONSTRUCTION TECHNOLOGY CURRICULUM**

The standard curriculum for the Electrical Construction Technology program is designed for the semester system. Students may enter the program in any semester. The program generally takes 3 semesters to complete. To graduate, students must earn a minimum of 46 credit hours.

## CURRICULUM OUTLINE

### **GENERAL CORE COURSES and CREDIT HOURS (11 Hours Required)**

COLL 1040	College Foundations (Institutional Credit Only)	3 Credit Hours
EMPL 1000	Interpersonal Relations and Professional Development	2 Credit Hours
ENGL 1010	Fundamentals of English I	3 Credit Hours
MATH 1012	Foundations of Mathematics	3 Credit Hours

### **OCCUPATIONAL COURSES and CREDIT HOURS (35 Hours Required)**

IDFC 1007	Industrial Safety Procedures	2 Credit Hours
IDFC 1011	Direct Current I	3 Credit Hours
ELTR 1020	Electrical Systems Basics I	3 Credit Hours
ELTR 1060	Electrical Prints, Schematics and Symbols	2 Credit Hours
ELTR 1080	Commercial Wiring I	5 Credit Hours
ELTR 1090	Commercial Wiring II	3 Credit Hours
ELTR 1180	Electrical Controls	4 Credit Hours
ELTR 1205	Residential Wiring I	3 Credit Hours
ELTR 1210	Residential Wiring II	3 Credit Hours
	Elective	7 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$5,800

Books/Supplies: \$1,749

## **VIDALIA CAMPUS - ELECTRONICS FUNDAMENTALS DIPLOMA PROGRAM** **Major Code EF12**

The Electronics Fundamentals diploma program is a sequence of courses designed to prepare students for entry-level positions as electronic technicians. Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of electronic theory and practical applications necessary for successful employment. Program graduates are to be competent in the general areas of communications, math, and interpersonal relations. Final exams for the four major electronics areas are the Electronics Systems Associate ESA-1 through ESA-4 exams.

### **EMPLOYMENT OPPORTUNITIES**

Program graduates receive an Electronic Fundamentals diploma, which prepares them for entry-level positions in the electronics field and qualifies them for admission into the Electronics Technology diploma and degree programs. Continuation into the Electronics Technology program is recommended and encouraged. Graduates who have scored >75% on their four ESA exams will also receive their Associate CET license from the International Society of Certified Electronics Technicians (ISCET).

### **PROGRAM DELIVERY METHOD**

The Electronics Fundamentals diploma program is available through on-campus classes at Southeastern Technical College's Vidalia campus and through the World Wide Web with the Georgia Virtual Technical Connection.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	<b>41</b>
ASSET	38	37	32	36
COMPASS	70	32	26	28
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

PLEASE NOTE: Electronics Technology students who plan to graduate with the A.A.S. degree, but are enrolled in the diploma program for financial aid reasons, must meet the following assessment requirements to complete the degree program:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	64	70		57
ASSET	41	40		42
COMPASS	79	62		37
SAT	26	26		24
ACT	17	16	19	

### **ELECTRONICS FUNDAMENTALS CURRICULUM**

The standard curriculum for the Electronics Fundamental diploma program is designed for the semester system. Students may enter the program beginning any semester. The program generally takes 3 semesters to complete. To graduate, students must earn a minimum of 41 credit hours.

### **CURRICULUM OUTLINE**

#### **GENERAL CORE COURSES and CREDIT HOURS (11 Hours Required)**

COLL 1040	College Foundations (Institutional Credit Only)	3 Credit Hours
EMPL 1000	Interpersonal Relations and Professional Development	2 Credit Hours
ENGL 1010	Fundamentals of English I	3 Credit Hours
<i>CHOOSE ONE:</i>		
MATH 1012	Foundations of Mathematics	3 Credit Hours
MATH 1013	Algebraic Concepts	3 Credit Hours
MATH 1111	College Algebra	3 Credit Hours

#### **OCCUPATIONAL COURSES and CREDIT HOURS (30 Hours Required)**

COMP 1000	Introduction to Computer Literacy	3 Credit Hours
ELCR 1005	Soldering Technology	1 Credit Hours
ELCR 1010	Direct Current Circuits	6 Credit Hours
ELCR 1020	Alternating Current Circuits	7 Credit Hours
ELCR 1030	Solid State Devices	5 Credit Hours
ELCR 1040	Digital and Microprocessor Fundamentals	5 Credit Hours
ELCR 1060	Linear Integrated Circuits	3 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$4,354

Books/Supplies: \$1,995

In addition to regular tuition/fees and book/supply costs for the program, there is a \$35 testing fee for each of the ESA-1 through ESA-4 certification exams for the four major electronics subject areas.

## **VIDALIA CAMPUS - ELECTRONICS TECHNOLOGY DIPLOMA PROGRAM** **Major Code ET14**

The Electronics Technology diploma program is a sequence of courses designed to prepare students for entry-level positions as electronic technicians. Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of electronic theory and practical applications necessary for successful employment. Program graduates are to be competent in the general areas of communications, math, and interpersonal relations. Final exams for the four major electronics areas are the Electronics Systems Associate ESA-1 through ESA-4 exams.

### **EMPLOYMENT OPPORTUNITIES**

Program graduates receive an Electronic Technology diploma, which qualifies them as an electronics technician with a specialization in computer electronics or industrial electronics. Graduates who have scored >75% on their four ESA exams will also receive their Associate CET license from the International Society of Certified Electronics Technicians (ISCET).

### **PROGRAM DELIVERY METHOD**

The Electronics Technology diploma program is available through on-campus classes at Southeastern Technical College's Vidalia campus and through the World Wide Web with the Georgia Virtual Technical Connection.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	41
ASSET	38	37	32	36
COMPASS	70	32	26	28
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		



PLEASE NOTE: Electronics Technology students who plan to graduate with the A.A.S. degree, but are enrolled in the diploma program for financial aid reasons, must meet the following assessment requirements to complete the degree program:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	64	70		57
ASSET	41	40		42
COMPASS	79	62		37
SAT	26	26		24
ACT	17	16	19	

### **ELECTRONICS TECHNOLOGY CURRICULUM**

The standard curriculum for the Electronics Technology diploma program is designed for the semester system. Students may enter the program beginning any semester. The program generally takes 4 semesters to complete. The program requires completion of the 41 credit hours in the Electronics Fundamentals diploma plus an additional 16 to 19 credit hours in one of the specialization areas. To graduate, students must earn a minimum of 57-59 credit hours for the industrial electronics option or a minimum of 60 credit hours for the computer electronics option.

### **CURRICULUM OUTLINE**

#### **GENERAL CORE COURSES and CREDIT HOURS (11 Hours Required)**

COLL 1040	College Foundations (Institutional Credit Only)	3 Credit Hours
EMPL 1000	Interpersonal Relations and Professional Development	2 Credit Hours
ENGL 1010	Fundamentals of English I	3 Credit Hours
	<i>CHOOSE ONE:</i>	
MATH 1012	Foundations of Mathematics	3 Credit Hours
MATH 1013	Algebraic Concepts	3 Credit Hours
MATH 1111	College Algebra	3 Credit Hours

#### **OCCUPATIONAL COURSES and CREDIT HOURS (30 Hours Required)**

COMP 1000	Introduction to Computer Literacy	3 Credit Hours
ELCR 1005	Soldering Technology	1 Credit Hours
ELCR 1010	Direct Current Circuits	6 Credit Hours
ELCR 1020	Alternating Current Circuits	7 Credit Hours
ELCR 1030	Solid State Devices	5 Credit Hours
ELCR 1040	Digital and Microprocessor Fundamentals	5 Credit Hours
ELCR 1060	Linear Integrated Circuits	3 Credit Hours

## **SPECIALIZATION AREA**

Choose one of the following specializations:

### **Computer Electronics (19 Hours Required)**

CIST 1001	Computer Concepts	4 Credit Hours
CIST 1122	Hardware Installation & Maintenance	4 Credit Hours
CIST 1601	Information Security	3 Credit Hours
CIST 1135	Operating Systems and Virtual/Cloud Computing	4 Credit Hours
<i>CHOOSE ONE:</i>		
CIST 2411	Microsoft Client	4 Credit Hours
CIST 2451	Introduction to Networks	4 Credit Hours

### **Industrial Electronics (16-18 Hours Required)**

ELCR 2110	Process Controls	3 Credit Hours
ELCR 2140	Mechanical Devices	2 Credit Hours
ELCR 2150	Fluid Power	2 Credit Hours
ELCR 2160	Advanced Microprocessors and Robotics	3 Credit Hours
<i>CHOOSE ONE:</i>		
ELCR 2120	Motor Controls	3 Credit Hours
ELTR 1180	Electrical Controls	4 Credit Hours
<i>CHOOSE ONE;</i>		
ELCR 2130	Programmable Controllers	3 Credit Hours
ELTR 1220	Industrial PLC's	4 Credit Hours

## **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$6,080

Books/Supplies: \$2,836

## **SWAINSBORO CAMPUS - FISH AND WILDLIFE MANAGEMENT DIPLOMA PROGRAM**

### **Major Code GAF2**

The Fish and Wildlife Management Diploma Program is a sequence of courses that prepares students for careers as wildlife technicians. The Fish & Wildlife Program prepares individuals to conserve and manage wilderness areas and the flora, marine and aquatic life therein, and manage wildlife reservations and zoological/aquarium facilities for recreational, commercial, and ecological purposes. Includes instruction in wildlife biology, marine/aquatic biology, environmental science, freshwater and saltwater ecosystems, natural resources management and policy, outdoor recreation and parks management, the design and operation of natural and artificial wildlife habitats, applicable law and regulations, and related administrative and communications skills.

### **EMPLOYMENT OPPORTUNITIES**

Fish and Wildlife Management students have a wide variety of state agency jobs to select from such as: park ranger, park naturalist, conservation ranger, wildlife and fisheries technician, and campground manager. Private and self-employment opportunities also exist such as: wildlife consulting, habit and fish pond management, and nuisance wildlife control.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **FISH AND WILDLIFE MANAGEMENT CURRICULUM**

The standard curriculum for the Fish and Wildlife Management diploma program is designed for the semester system. Students may enter the Fish and Wildlife Management diploma program each semester. The program generally takes 3 or more semesters to complete. To graduate, students must earn a minimum of 40 credit hours.

## CURRICULUM OUTLINE

### **GENERAL CORE COURSES and CREDIT HOURS (11 Hours Required)**

COLL 1040	College Foundations (Institutional Credit Only)	3 Credit Hours
ENGL 1010	Fundamentals of English I	3 Credit Hours
MATH 1012	Foundations of Mathematics	3 Credit Hours
EMPL 1000	Interpersonal Relations & Professional Development	2 Credit Hours

### **OCCUPATIONAL COURSES and CREDIT HOURS (29 Hours Required)**

FWMT 1000	Introduction to Wildlife Management	3 Credit Hours
FWMT 1010	Equipment Use	3 Credit Hours
FWMT 1070	Mammology	3 Credit Hours
FWMT 2010	Wildlife Management Techniques	4 Credit Hours
FWMT 2020	Habitat Manipulation	4 Credit Hours
FWMT 2030	Fish Pond Management	3 Credit Hours
FORS 1030	Dendrology	3 Credit Hours
	Guideline Electives	6 Credit Hours

Approved Electives: FWMT 1030, FWMT 1040, FWMT 1050, FWMT 1060, FWMT 1020, WLD 1040

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$3,078

Books/Supplies: \$1,464

## **INDUSTRIAL ELECTRICAL TECHNOLOGY DIPLOMA PROGRAM** **Major Code IET2**

The Industrial Electrical Technology program is a sequence of courses designed to prepare students for careers in industry. Learning opportunities develop academic, technical, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of theory and practical application necessary for successful employment. Program graduates receive an Industrial Electrical Technology diploma.

### **EMPLOYMENT OPPORTUNITIES**

Students completing the Industrial Electrical Technology program should be able to find employment with electrical contractors, industrial plants, most state agencies, and power companies.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **Industrial Electrical TECHNOLOGY CURRICULUM**

The standard curriculum for the Industrial Electrical Technology program is designed for the semester system. Students may enter the program in any semester. The program generally takes 3 to 4 semesters to complete. To graduate, students must earn a minimum of 46 credit hours.

## CURRICULUM OUTLINE

### **GENERAL CORE COURSES and CREDIT HOURS (11 Hours Required)**

COLL 1040	College Foundations (Institutional Credit Only)	3 Credit Hours
EMPL 1000	Interpersonal Relations and Professional Development	2 Credit Hours
ENGL 1010	Fundamentals of English I	3 Credit Hours
MATH 1012	Foundations of Mathematics	3 Credit Hours

### **OCCUPATIONAL COURSES and CREDIT HOURS (35 Hours Required)**

IDFC 1007	Industrial Safety Procedures	2 Credit Hours
IDFC 1011	Direct Current I	3 Credit Hours
ELTR 1020	Electrical Systems Basics I	3 Credit Hours
ELTR 1060	Electrical Prints, Schematics and Symbols	2 Credit Hours
ELTR 1080	Commercial Wiring I	5 Credit Hours
ELTR 1090	Commercial Wiring II	3 Credit Hours
ELTR 1180	Electrical Controls	4 Credit Hours
ELTR 1220	Industrial PLC's	4 Credit Hours
ELTR 1270	NEC Industrial Applications	4 Credit Hours
	Elective	5 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$5,800

Books/Supplies: \$1,749

**SWAINSBORO CAMPUS – NCCER INDUSTRIAL ELECTRICAL AND MAINTENANCE TECHNICIAN DIPLOMA PROGRAM**  
**Major Code IS22**

Industrial system maintenance personnel, technicians, electricians, millwrights, and other related jobs are charged with inspecting, maintaining, troubleshooting, and repairing commercial and industrial mechanical and electrical systems. These systems are found in manufacturing applications, assembly lines, and production facilities. The complex machinery found in each of these situations need technicians to install, service, troubleshoot, maintain, and repair the machinery in order for the companies to maintain a high level of productivity.

**EMPLOYMENT OPPORTUNITIES**

Program graduates receive an Industrial Electrical and Maintenance Technician diploma, which prepares the graduate for entry-level positions as an Industrial systems technician/electrician.

**ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

**NCCER INDUSTRIAL ELECTRICAL AND MAINTENANCE TECHNICIAN CURRICULUM**

Students may enter the program in any semester term. The program may be completed in 3 semesters. To graduate, students must earn a minimum of 43 credit hours.

## CURRICULUM OUTLINE

### **GENERAL CORE COURSES and CREDIT HOURS (11 Hours Required)**

COLL 1040	College Foundations (Institutional Credit Only)	3 Credit Hours
EMPL 1000	Interpersonal Relations and Professional Development	2 Credit Hours
ENGL 1010	Fundamentals of English I	3 Credit Hours
MATH 1012	Foundations of Mathematics	3 Credit Hours

### **OCCUPATIONAL COURSES and CREDIT HOURS (32 Hours Required)**

COFC 1080	Construction Trades Core	4 Credit Hours
ICMT 1010	Industrial Maintenance Fundamentals 1	3 Credit Hours
ICMT 1020	Industrial Maintenance Fundamentals 2	3 Credit Hours
ICMT 1030	Industrial Electrical Fundamentals	4 Credit Hours
ICMT 1040	Intermediate Industrial Maintenance 1	3 Credit Hours
ICMT 1050	Intermediate Industrial Maintenance 2	4 Credit Hours
ICMT 1060	Hydraulics and Pneumatics	4 Credit Hours
	Electives	7 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$5,800

Books/Supplies: \$4,600



## **WELDING & JOINING TECHNOLOGY DIPLOMA PROGRAM** **Major Code WAJ2**

The Welding Technology Diploma program is a sequence of courses that prepares students for careers in the welding industry. Learning opportunities develop academic, occupational, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of welding theory and practical application necessary for successful employment. Program graduates receive a Welding Technology diploma.

### **EMPLOYMENT OPPORTUNITIES**

The Welding and Joining Technology Diploma Program is intended to prepare graduates for entry-level jobs as welding construction workers or pipe welders throughout the USA.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **WELDING & JOINING TECHNOLOGY DIPLOMA CURRICULUM**

The standard curriculum for the Welding & Joining Technology diploma program is designed for the semester system. Students may enter the program in any semester. The program generally takes 3 semesters to complete. To graduate, students must earn a minimum of 59 credit hours.

## CURRICULUM OUTLINE

### **GENERAL CORE COURSES and CREDIT HOURS (11 Hours Required)**

COLL 1040	College Foundations (Institutional Credit Only)	3 Credit Hours
MATH 1012	Foundations of Mathematics	3 Credit Hours
ENGL 1010	Fundamentals of English I	3 Credit Hours
EMPL 1000	Interpersonal Relations & Professional Development	2 Credit Hours

### **OCCUPATIONAL COURSES and CREDIT HOURS (48 Hours Required)**

WELD 1000	Introduction to Welding Technology	4 Credit Hours
WELD 1010	Oxyfuel Cutting and Plasma Arc Cutting	4 Credit Hours
WELD 1030	Blueprint Reading	4 Credit Hours
WELD 1040	Flat Shielded Metal Arc Welding	4 Credit Hours
WELD 1050	Horizontal Shielded Metal Arc Welding	4 Credit Hours
WELD 1060	Vertical Shielded Metal Arc Welding	4 Credit Hours
WELD 1070	Overhead Shielded Metal Arc Welding	4 Credit Hours
WELD 1090	Gas Metal Arc Welding	4 Credit Hours
WELD 1110	Gas Tungsten Arc Welding	4 Credit Hours
WELD 1120	Preparation for Industrial Qualification	4 Credit Hours
WELD 1153	Flux Cored Arc Welding (Elective)	4 Credit Hours
WELD 1150	Adv. Gas Tungsten Arc Welding	4 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$3,024

Books/Supplies: \$1,045

## **ADVANCED SHIELDED METAL ARC WELDER CERTIFICATE PROGRAM** **Major Code OSM1**

The Advanced Shielded Metal Arc Welder Certificate is a 2 semester program. The certificate provides the student with basic knowledge and skills to obtain employment as an Advanced Shielded Metal Arc Welder. The certificate emphasizes horizontal, vertical, and overhead welding techniques. Completion of the Basic Shielded Metal Arc Welder Certificate is required before beginning this certificate.

### **EMPLOYMENT OPPORTUNITIES**

The demand for trained welders is great, with many well-paying job opportunities available upon program completion.

There is no specific licensure that applies to either welding program. However, graduates of this program would be better prepared to qualify for select industry certifications and those employers conduct.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **ADVANCED SHIELDED METAL ARC WELDER CURRICULUM**

The standard curriculum for the Advanced Shielded Metal Arc Welding (SMAW) certificate program is designed for the semester system. Students may only begin the program upon completion of the Basic Shielded Metal Arc Welder Certificate. The program generally takes 2 semesters to complete. To graduate, students must earn a minimum of 12 credit hours.

## CURRICULUM OUTLINE

### **OCCUPATIONAL COURSES and CREDIT HOURS (12 Hours Required)**

WELD 1050 Shielded Metal ARC Welding II-Horizontal Position 4 Credit Hours

WELD 1060 Shielded Metal ARC Welding III-Vertical Position 4 Credit Hours

WELD 1070 Shielded Metal ARC Welding IV-Overhead Position 4 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$1,026

Books/Supplies: \$4,425

## **VIDALIA CAMPUS - AIR CONDITIONING TECHNICIAN ASSISTANT CERTIFICATE PROGRAM**

### **Major Code AZ31**

The Air Conditioning Technician (also known as Refrigeration Technician) Assistant TCC is a series of courses that prepares students to hold positions as refrigeration technician assistants.

### **EMPLOYMENT OPPORTUNITIES**

With much faster than average job growth and numerous expected retirements, air conditioning, and refrigeration mechanics and installers should have excellent employment opportunities.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **AIR CONDITIONING TECHNICIAN CURRICULUM**

The standard curriculum for the Air Conditioning Technician Assistant certificate program is designed for the semester system. Students may enter the program in any given semester, in which these classes are offered. The program may be completed in 1-2 semester. To graduate, students must earn a minimum of 12 credit hours.

## CURRICULUM OUTLINE

### **OCCUPATIONAL COURSES and CREDIT HOURS (12 Hours Required)**

AIRC 1005	Refrigeration Fundamentals	4 Credit Hours
AIRC 1010	Principles and Practices Refrigeration	4 Credit Hours
AIRC 1020	Refrigeration Systems Components	4 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$1,216

Books/Supplies: \$180

**VIDALIA CAMPUS - AUTOMOTIVE CHASSIS TECHNICIAN SPECIALIST  
CERTIFICATE PROGRAM**  
**Major Code ASG1**

The Automotive Chassis Technician Specialist certificate program provides students with skills needed to enter the automotive industry as an entry level chassis technician. Topics covered include: shop safety, basic electrical/electronic theory and diagnosis, chassis components and types, steering system components and service, alignment theory and procedures, and brake system operation, diagnosis and repair.

**EMPLOYMENT OPPORTUNITIES**

Graduates receive an Automotive Chassis Technician Specialist certificate which prepares them for jobs as entry level auto technicians. Automotive technicians work in a variety of different types of repair shops performing repairs and maintenance on vehicles for customers. Repairs often involve the technician using a variety of tools and specialized equipment. In recent times computerized diagnostic equipment is used in virtually all facets of the repair process. Technicians are often paid an hourly wage, but their repair work is billed out by the repair. This system, called flat rate, enables most experienced technicians to bill out more work or time than they actually have on the clock. As a result, technicians can make a much greater annual wage than their hourly rate would indicate.

**PROGRAM DELIVERY METHOD**

The Automotive Chassis Technician Specialist certificate program uses a variety of instructional methods ranging from lecture to demonstration to hands on learning opportunities in a new State of the Art Automotive Technology facility. The use of modern technology from use of computer programs to simulators is available to enhance student learning.

**ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
GAHSGT	235	235		

### **AUTOMOTIVE CHASSIS TECHNICIAN SPECIALIST CURRICULUM**

The standard curriculum for Automotive Chassis Technician Specialist certificate program is designed for the semester system. Students may enter the program in any semester term in which any of the four required courses are offered. The program may usually be completed in 1- 2 semester terms. To graduate, students must earn a minimum of 17 credit hours.

### **CURRICULUM OUTLINE**

#### **OCCUPATIONAL COURSES and CREDIT HOURS (17 Hours Required)**

AUTT 1010	Automotive Technology Introduction	2 Credit Hours
AUTT 1020	Automotive Electrical Systems	7 Credit Hours
AUTT 1030	Automotive Brake Systems	4 Credit Hours
AUTT 1050	Automotive Suspension and Steering Systems	4 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$1,933

Books/Supplies: \$500



**VIDALIA CAMPUS - AUTOMOTIVE CLIMATE CONTROL TECHNICIAN  
CERTIFICATE PROGRAM**  
**Major Code AH21**

The Automotive Climate Control Technician certificate program provides students with skills for entering the automotive service industry as an entry level climate control technician. Topics covered include: basic shop safety, electrical/electronic theory and diagnosis, and the theory, operation, diagnosis and servicing of automotive climate control systems.

**EMPLOYMENT OPPORTUNITIES**

Graduates receive an Automotive Climate Control Technician certificate which prepares them for jobs as entry level auto technicians. Automotive technicians work in a variety of different types of repair shops performing repairs and maintenance on vehicles for customers. Repairs often involve the technician using a variety of tools and specialized equipment. In recent times computerized diagnostic equipment is used in virtually all facets of the repair process. Technicians are often paid an hourly wage, but their repair work is billed out by the repair. This system, called flat rate, enables most experienced technicians to bill out more work or time than they actually have on the clock. As a result, technicians can make a much greater annual wage than their hourly rate would indicate.

**PROGRAM DELIVERY METHOD**

The Automotive Climate Control Technician certificate program uses a variety of instructional methods ranging from lecture to demonstration to hands on learning opportunities in a new State of the Art Automotive Technology facility. The use of modern technology from use of computer programs to simulators is available to enhance student learning.

**ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
GAHSGT	235	235		

### **AUTOMOTIVE CLIMATE CONTROL TECHNICIAN CURRICULUM**

The standard curriculum for Automotive Climate Control Technician certificate program is designed for the semester system. Students may enter the program in any semester term in which any of the three required courses are offered. The program may be completed in as little as 1 semester and no more than 2 semesters to complete. To graduate, students must earn a minimum of 14 credit hours.

### **CURRICULUM OUTLINE**

#### **OCCUPATIONAL COURSES and CREDIT HOURS (14 Hours Required)**

AUTT 1010	Automotive Technology Introduction	2 Credit Hours
AUTT 1020	Automotive Electrical Systems	7 Credit Hours
AUTT 1060	Automotive Climate Control Systems	5 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$1,434

Books/Supplies: \$500

**VIDALIA CAMPUS - AUTOMOTIVE ELECTRICAL/ELECTRONIC SYSTEMS  
TECHNICIAN CERTIFICATE PROGRAM**  
**Major Code AE41**

The Auto Electrical/Electrical Systems Technician certificate program provides students with the knowledge and skills necessary to diagnose, service, and repair basic electrical/electronic automotive systems as an entry level technician. Topics covered include automotive shop safety, electrical theory and circuit diagnosis, automotive batteries, starting and charging systems, instrumentation, lighting, and various vehicle accessories.

**EMPLOYMENT OPPORTUNITIES**

Graduates receive an Auto Electrical/Electronic Systems Technician certificate which prepares them for jobs as entry level auto technicians. Automotive technicians work in a variety of different types of repair shops performing repairs and maintenance on vehicles for customers. Repairs often involve the technician using a variety of tools and specialized equipment. In recent times computerized diagnostic equipment is used in virtually all facets of the repair process. Technicians are often paid an hourly wage, but their repair work is billed out by the repair. This system, called flat rate, enables most experienced technicians to bill out more work or time than they actually have on the clock. As a result, technicians can make a much greater annual wage than their hourly rate would indicate.

**PROGRAM DELIVERY METHOD**

The Auto Electrical/Electronic Systems Technician certificate program uses a variety of instructional methods ranging from lecture to demonstration to hands on learning opportunities in a new State of the Art Automotive Technology facility. The use of modern technology from use of computer programs to simulators is available to enhance student learning.

**ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACT	13	12	17	
GAHSGT	235	235		

### **AUTO ELECTRICAL/ELECTRONIC SYSTEMS CURRICULUM**

The standard curriculum for Auto Electrical/Electronic Systems Technician certificate program is designed for the semester system. Students may enter the program in any semester term in which either one or both of the required courses are offered. The program generally takes 1 semester to complete. To graduate, students must earn a minimum of 9 credit hours.

### **CURRICULUM OUTLINE**

#### **OCCUPATIONAL COURSES and CREDIT HOURS (9 Hours Required)**

AUTT 1010	Automotive Technology Introduction	2 Credit Hours
AUTT 1020	Automotive Electrical Systems	7 Credit Hours

#### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$1,009

Books/Supplies: \$500

**VIDALIA CAMPUS - AUTOMOTIVE ENGINE PERFORMANCE TECHNICIAN  
CERTIFICATE PROGRAM**  
**Major Code AE51**

The Automotive Engine Performance Technician certificate program introduces students to the knowledge and skills they will need as entry level automotive engine performance technicians. Topics covered include: shop safety, electrical/electronics diagnosis, and diagnosis and service of fuel, ignition, emission and electronic engine controls.

**EMPLOYMENT OPPORTUNITIES**

Graduates receive an Automotive Engine Performance Technician certificate which prepares them for jobs as entry level auto technicians. Automotive technicians work in a variety of different types of repair shops performing repairs and maintenance on vehicles for customers. Repairs often involve the technician using a variety of tools and specialized equipment. In recent times computerized diagnostic equipment is used in virtually all facets of the repair process. Technicians are often paid an hourly wage, but their repair work is billed out by the repair. This system, called flat rate, enables most experienced technicians to bill out more work or time than they actually have on the clock. As a result, technicians can make a much greater annual wage than their hourly rate would indicate.

**PROGRAM DELIVERY METHOD**

The Automotive Engine Performance Technician certificate program uses a variety of instructional methods ranging from lecture to demonstration to hands on learning opportunities in a new State of the Art Automotive Technology facility. The use of modern technology from use of computer programs to simulators is available to enhance student learning.

**ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
GAHSGT	235	235		

### **AUTOMOTIVE ENGINE PERFORMANCE TECHNICIAN CURRICULUM**

The standard curriculum for Automotive Engine Performance Technician certificate program is designed for the semester system. Students may enter the program in any semester term in which any of the three required courses are offered. The program may be completed in as little as 1 semester and no more than 2 semesters to complete. To graduate, students must earn a minimum of 16 credit hours.

### **CURRICULUM OUTLINE**

#### **OCCUPATIONAL COURSES and CREDIT HOURS (16 Hours Required)**

AUTT 1010	Automotive Technology Introduction	2 Credit Hours
AUTT 1020	Automotive Electrical Systems	7 Credit Hours
AUTT 1040	Automotive Engine Performance	7 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$1,848

Books/Supplies: \$500

## **VIDALIA CAMPUS - AUTOMOTIVE ENGINE REPAIR TECHNICIAN CERTIFICATE PROGRAM**

### **Major Code AE61**

The Automotive Engine Repair Technician certificate program provides the student with entry level automotive engine repair skills. Topics include: basic shop safety, basic electrical/electronic diagnosis, principles of engine operation, basic engine diagnosis, and basic engine repair procedures.

### **EMPLOYMENT OPPORTUNITIES**

Graduates receive an Automotive Engine Repair Technician certificate which prepares them for jobs as entry level auto technicians. Automotive technicians work in a variety of different types of repair shops performing repairs and maintenance on vehicles for customers. Repairs often involve the technician using a variety of tools and specialized equipment. In recent times computerized diagnostic equipment is used in virtually all facets of the repair process. Technicians are often paid an hourly wage, but their repair work is billed out by the repair. This system, called flat rate, enables most experienced technicians to bill out more work or time than they actually have on the clock. As a result, technicians can make a much greater annual wage than their hourly rate would indicate.

### **PROGRAM DELIVERY METHOD**

The Automotive Engine Repair Technician certificate program uses a variety of instructional methods ranging from lecture to demonstration to hands on learning opportunities in a new State of the Art Automotive Technology facility. The use of modern technology from use of computer programs to simulators is available to enhance student learning.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

## **AUTOMOTIVE ENGINE REPAIR TECHNICIAN CURRICULUM**

The standard curriculum for Automotive Engine Repair Technician certificate program is designed for the semester system. Students may enter the program in any semester term in which any of the three required courses are offered. The program may be completed in as little as 1 semester and no more than 2 semesters to complete. To graduate, students must earn a minimum of 15 credit hours.

### **CURRICULUM OUTLINE**

#### **OCCUPATIONAL COURSES and CREDIT HOURS (15 Hours Required)**

AUTT 1010	Automotive Technology Introduction	2 Credit Hours
AUTT 1020	Automotive Electrical Systems	7 Credit Hours
AUTT 2010	Automotive Engine Repair	6 Credit Hours

#### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$1,519

Books/Supplies: \$500



**VIDALIA CAMPUS - AUTOMOTIVE TRANSMISSION/TRANSAXLE TECH  
SPECIALIST CERTIFICATE PROGRAM**  
**Major Code AA71**

The Automotive Transmission/Transaxle Tech Specialist certificate program provides students with the skills to enter the automotive industry as an entry level transmission, transaxle, and drive line technician. Topics covered include: shop safety, basic electrical/electronic theory and diagnosis, manual transmission/transaxle operation and diagnosis, automatic transmission/transaxle operation and diagnosis, axles operation and diagnosis, differentials operation and diagnosis, and 4WD/AWD systems operation and diagnosis.

**EMPLOYMENT OPPORTUNITIES**

Graduates receive an Automotive Transmission/Transaxle Tech Specialist certificate which prepares them for jobs as entry level auto technicians. Automotive technicians work in a variety of different types of repair shops performing repairs and maintenance on vehicles for customers. Repairs often involve the technician using a variety of tools and specialized equipment. In recent times computerized diagnostic equipment is used in virtually all facets of the repair process. Technicians are often paid an hourly wage, but their repair work is billed out by the repair. This system, called flat rate, enables most experienced technicians to bill out more work or time than they actually have on the clock. As a result, technicians can make a much greater annual wage than their hourly rate would indicate.

**PROGRAM DELIVERY METHOD**

The Automotive Transmission/Transaxle Tech Specialist certificate program uses a variety of instructional methods ranging from lecture to demonstration to hands on learning opportunities in a new State of the Art Automotive Technology facility. The use of modern technology from use of computer programs to simulators is available to enhance student learning.

**ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **AUTOMOTIVE TRANSMISSION/TRANSAXLE TECH SPECIALIST CURRICULUM**

The standard curriculum for Automotive Transmission/Transaxle Tech Specialist certificate program is designed for the semester system. Students may enter the program in any semester term in which any of the four required courses are offered. While the program may be completed in as little as 1 semester, it generally takes 2 semesters to complete. To graduate, students must earn a minimum of 18 credit hours.

### **CURRICULUM OUTLINE**

#### **OCCUPATIONAL COURSES and CREDIT HOURS (18 Hours Required)**

AUTT 1010	Automotive Technology Introduction	2 Credit Hours
AUTT 1020	Automotive Electrical Systems	7 Credit Hours
AUTT 2020	Automotive Manual Drive Train and Axles	4 Credit Hours
AUTT 2030	Automotive Automatic Transmissions and Transaxles	5 Credit Hours

#### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$2,018

Books/Supplies: \$500

## **SWAINBORO CAMPUS - BASIC CNC TECHNICIAN CERTIFICATE PROGRAM** **Major Code BC21**

The Basic CNC Technician Certificate of Credit provides training in Computer Numerical Controls and prepares the graduate for a job in precision manufacturing. Topics include: machine tool math, blueprint for machine tool, CNC fundamentals, CNC mill manual programming CNC lathe manual programming, and CNC practical applications.

### **EMPLOYMENT OPPORTUNITIES**

Graduates of the Basic CNC Technician Technical Certificate will be able to gain employment as CNC Machine Tool Technicians. Machinists set up and operate a variety of computer-controlled and mechanically controlled machine tools to produce precision metal parts, instruments, and tools. This TCC will provide entry-level education and hands on training for similar occupations in this field.

### **PROGRAM DELIVERY METHOD**

The Basic CNC Technician Technical certificate of credit program uses a variety of instructional methods ranging from lecture to demonstration to hands on learning opportunities with new state of the art equipment. The use of modern technology from use of computer programs to simulators is available to enhance student learning.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

## **BASIC CNC TECHNICIAN TECHNICAL CERTIFICATE CURRICULUM**

The standard curriculum for the Basic CNC Technician Technical certificate program is designed for the semester system. Students may enter the program in any semester term in which any of the six required courses are offered. The program may be completed in as little as 1 year. To graduate, students must earn a minimum of 24 credit hours.

### **CURRICULUM OUTLINE**

#### **OCCUPATIONAL COURSES and CREDIT HOURS (24 Hours Required)**

MCHT 1012	Blueprint for Machine Tool	3 Credit Hours
MCHT 1013	Machine Tool Math	3 Credit Hours
AMCA 2110	CNC Fundamentals	4 Credit Hours
AMCA 2130	CNC Mill Manual Programming	5 Credit Hours
AMCA 2150	Lathe Manual Programming	5 Credit Hours
AMCA 2170	Practical Applications	4 Credit Hours

#### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$1,958

Books/Supplies: \$500

## **BASIC SHIELDED METAL ARC WELDER CERTIFICATE PROGRAM**

### **Major Code FS31**

The Basic Shielded Metal Arc Welder (SMAW) Technical certificate program prepares an individual for employment within the welding and fabrication industry as well as similar working environments where SMAW applications are required.

### **EMPLOYMENT OPPORTUNITIES**

The demand for trained welders is great, with many well-paying job opportunities available upon pro-gram completion.

### **LICENSURE**

There is no specific licensure that applies to either welding program. However, graduates of this program would be better prepared to qualify for select industry certifications and those employers conduct.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	36	30	23	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **BASIC SHIELDED METAL ARC WELDER CURRICULUM**

The standard curriculum for the Basic Shielded Metal ARC Welder certificate program is designed for the semester system. Students are encouraged to begin the program in the fall semester to maximize their progress toward completion. However, students may begin the program any semester. The program generally takes 1 semester to complete if students begin during fall semester. To graduate, students must earn a minimum of 12 semester hours.

## CURRICULUM OUTLINE

### **OCCUPATIONAL COURSES and CREDIT HOURS (12 Hours Required)**

WELD 1000	Introduction to Welding	4 Credit Hours
WELD 1010	Oxyfuel Cutting and Plasma Arc Cutting	4 Credit Hours
WELD 1040	Shielded Metal ARC Welding I-Flat Position	4 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$703

Books/Supplies: \$135

## **COMMERCIAL TRUCK DRIVING CERTIFICATE PROGRAM**

### **Major Code CT61**

The Commercial Truck Driving (CTD) certificate program provides basic training in the principles and skills of commercial truck operations. The program provides training for those individuals seeking a Commercial Driver's License. The program is based on the definition of a truck driver as one who operates a commercial motor vehicle of all different sizes and descriptions on all types of roads. In addition to classroom instruction, students receive commercial truck driving training on site and on the road. The CTD certificate program is a 7-10 week course of study. Day classes meet 8 a.m. to 4:30 p.m. Mondays through Thursdays. Night classes meet from 5:30-10:30 with 2 Saturdays from 8 a.m. to 5 p.m.

### **EMPLOYMENT OPPORTUNITIES**

Opportunities exist for graduates of the program to go into local and over-the-road commercial truck driving positions.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee
- Be at least 18 years of age;
- Have a valid Georgia Driver's License;
- Provide a 7-year Motor Vehicle Report that shows no more than 8 points or 3 moving violations in the last 3 years and no DUI in last 7 years;
- Pass a D.O.T. physical\*; (\*Not required until all other criteria has been met.)
- Pass NIDA 5 drug screening\*;
- Meet any applicable Federal Standards;
- Applicants must comply with Federal requirements as set forth in the Federal Motor Carrier Safety Regulations;
- Due to limited space in the program, applicants will be admitted to the truck driving program on a first come first served basis. Once an applicant has completed and submitted all the required paperwork he/she will be added to the list of students that are ready to begin the program.
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	36	30	23	
ASSET	29	32	29	
COMPASS	46	15	17	
SAT	24	25	22	
ACT	13	12	16	
GAHSGT	235	235		

## **COMMERCIAL TRUCK DRIVING CURRICULUM**

The standard curriculum for the Commercial Truck Driving (CTD) program includes 3 semester courses taught sequentially. Although the college operates on the semester system, due to the nature of the coursework, the CTD program will offer classes 4 times during the school year, enabling 4 cohorts of students each year. The program will therefore admit new students four times a year. The program can be completed in 7-10 weeks. To graduate, students must earn a minimum of 9 semester credit hours. Starting and ending dates may be found by contacting Student Affairs or the program instructor.

### **CURRICULUM OUTLINE**

#### **OCCUPATIONAL COURSES and CREDIT HOURS (9 Hours Required)**

CTDL 1010	Fundamentals of Commercial Truck Driving	3 Credit Hours
CTDL 1020	Combination Vehicle Basic Operation and Range Work	2 Credit Hours
CTDL 1030	Combination Vehicle Advanced Operations	4 Credit Hours

#### **PROGRAM COSTS**

(Costs are estimates and are subject to change.)

Tuition/Fees: \$2,256

7-year MVR: \$8

D.O.T. Physical: \$90

N.I.D.A. 5 Drug Test: \$50

Driver's License Permit: \$45

Final Driving Test: \$50

Commercial Driver's License: \$20



## **COMMERCIAL WIRING CERTIFICATE PROGRAM**

### **Major Code CW31**

The Commercial Wiring Technical Certificate of Credit provides instruction in the knowledge and skills necessary to perform wiring functions in a commercial setting.

### **EMPLOYMENT OPPORTUNITIES**

Program graduates receive a Commercial Wiring Technical certificate of credit, which prepares the graduate for entry-level positions in the electrical and commercial construction field.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **COMMERCIAL WIRING CURRICULUM**

Students may enter the program in any semester. The certificate may be completed in 1-2 semesters. To graduate, students must earn a minimum of 18 credit hours.

### **CURRICULUM OUTLINE**

#### **OCCUPATIONAL COURSES and CREDIT HOURS (18 Hours Required)**

IDFC 1007	Industrial Safety Procedures	2 Credit Hours
IDFC 1011	Direct Current I	3 Credit Hours
ELTR 1020	Electrical Systems Basics I	3 Credit Hours
ELTR 1060	Electrical Prints, Schematics, and Symbols	2 Credit Hours
ELTR 1080	Commercial Wiring I	5 Credit Hours
ELTR 1090	Commercial Wiring II	3 Credit Hours

**PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$1,824

Books/Supplies: \$727

**SWAINSBORO CAMPUS**  
**DIESEL ELECTRICAL/ELECTRONIC SYSTEM TECHNICIAN TECHNICAL**  
**CERTIFICATE**  
**Major Code DE11**

The Diesel Electrical and Electronic Systems Technician certificate program provides the student with training for becoming an entry level diesel electrical/electronics systems technician. The topics presented include diesel shop safety and tool use, basic electrical and electronics theory, starting and charging systems, and electronic controls and accessory systems.

**EMPLOYMENT OPPORTUNITIES**

Students will be able to work in a variety of different types of repair shops or in the field performing repairs on heavy trucks or diesel equipment and engines for customers. Repairs often involve the technician using a variety of tools and specialized equipment. In recent times computerized diagnostic equipment is used in virtually all facets of the repair process. Diesel technicians are often paid an hourly wage, however, overtime hours often paid at time and a half are readily available. As a result, diesel technicians can make a higher annual wage than their hourly rate would indicate

**ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	36	30	23	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

**DIESEL ELECTRICAL/ELECTRONIC SYSTEM TECHNICIAN CURRICULUM**

The standard curriculum for the Diesel Electrical/Electronic System Technician program is designed for the semester system. Students may enter the program beginning any semester. The program generally takes 2 semesters to complete. To complete this technical certificate, students must earn a minimum of 10 credits.

## CURRICULUM OUTLINE

### **OCCUPATIONAL COURSES and CREDIT HOURS (10 Hours Required)**

DIET 1000	Introduction to Diesel Technology, Tools, and Safety	3 Credit Hours
DIET 1010	Diesel Electrical and Electronic Systems	7 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$ \$1,500

Books/Supplies: \$150

## **SWAINSBORO CAMPUS - DIESEL ENGINE SERVICE TECHNICIAN**

### **Major Code DE21**

The Diesel Engine Service Technician certificate program provides the student with training to become an entry level diesel engine service technician. The topics covered include diesel shop safety, tools and equipment, diesel electrical/electronic systems, and diesel engines and support systems.

### **EMPLOYMENT OPPORTUNITIES**

The Diesel Engine Service Technician certificate program is intended to prepare graduates for diesel engine service technician.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **DIESEL ENGINE SERVICE TECHNICIAN CURRICULUM**

The standard curriculum for the Diesel Engine Service Technician is designed for the semester system. Students may enter the Diesel Engine Service Technician program any semester. A full-time student can complete this program in 2 semesters. To graduate, students must earn a minimum of 16 semester credit hours.

### **CURRICULUM OUTLINE**

#### **OCCUPATIONAL COURSES and CREDIT HOURS (16 Hours Required)**

DIET 1000	Introduction to Diesel Technology, Tools, and Safety	3 Credit Hours
DIET 1010	Diesel Electrical and Electronic Systems	7 Credit Hours
DIET 1030	Diesel Engines	6 Credit Hours

**PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$2,410

Books/Supplies: \$800

## **SWAINSBORO CAMPUS - DIESEL TRUCK MAINTENANCE TECHNICIAN** **Major Code DTM1**

The Diesel Truck Maintenance Technician certificate program provides training in the essential knowledge, skills, and attitudes necessary for employment as a maintenance technician on semi-trucks, trailers or other diesel equipment. The topics covered include diesel shop safety, tools and equipment, preventive maintenance procedures, truck brake systems, and truck drive trains.

### **EMPLOYMENT OPPORTUNITIES**

The Diesel Truck Maintenance Technician program is intended to prepare graduates for entry-level jobs in truck maintenance field.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **DIESEL TRUCK MAINTENANCE TECHNICIAN CURRICULUM**

The standard curriculum for the Diesel Truck Maintenance Technician is designed for the semester system. Students may enter the Diesel Truck Maintenance Technician program any semester. A full-time student can complete this program in 2 semesters. To graduate, students must earn a minimum of 23 semester credit hours.

## CURRICULUM OUTLINE

### **OCCUPATIONAL COURSES and CREDIT HOURS (23 Hours Required)**

DIET 1000	Introduction to Diesel Technology, Tools, and Safety	3 Credit Hours
DIET 1010	Diesel Electrical and Electronic Systems	7 Credit Hours
DIET 1020	Preventive Maintenance	5 Credit Hours
DIET 2010	Truck Brake Systems	4 Credit Hours
DIET 2020	Truck Drive Trains	4 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$2,410

Books/Supplies: \$660



## **ELECTRICAL CONTRACTING TECHNICIAN CERTIFICATE PROGRAM** **Major Code ECL1**

The Electrical Contracting Technician Technical Certificate of Credit is a sequence of courses designed to prepare students for careers in residential and commercial electrical industries. The program emphasizes a combination of theory and practical application necessary for successful employment.

### **EMPLOYMENT OPPORTUNITIES**

Program graduates receive an Electrical Contracting Technician Technical certificate of credit, which prepares the graduate for entry-level positions in the residential and commercial electrical industries.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **ELECTRICAL CONTRACTING TECHNICIAN CURRICULUM**

The standard curriculum for the Electrical Contracting Technician certificate program is designed for the semester system. Students may enter the program in any semester term. The program may be completed in 3-4 semesters. To graduate, students must earn a minimum of 26 credit hours.

## CURRICULUM OUTLINE

### **OCCUPATIONAL COURSES and CREDIT HOURS (26 Hours Required)**

IDFC 1011	Direct Current I	3 Credit Hours
ELTR 1020	Electrical Systems Basics I	3 Credit Hours
ELTR 1060	Electrical Prints, Schematics, and Symbols	2 Credit Hours
ELTR 1080	Commercial Wiring I	5 Credit Hours
ELTR 1090	Commercial Wiring II	3 Credit Hours
ELTR 1180	Electrical Controls	4 Credit Hours
ELTR 1205	Residential Wiring I	3 Credit Hours
ELTR 1210	Residential Wiring II	3 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$3,648

Books/Supplies: \$1,249

## **SWAINSBORO CAMPUS - ELECTRICAL SYSTEMS ASSISTANT CERTIFICATE PROGRAM**

### **Major Code ESA1**

The Electrical Systems Assistant Certificate will provide students the occupational knowledge and skills necessary for the entry-level employment as an electrician.

### **EMPLOYMENT OPPORTUNITIES**

Program graduates receive an Electrical Systems Assistant Technical certificate of credit, which prepares the graduate for entry-level positions as an electrical technician.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **ELECTRICAL SYSTEMS ASSISTANT CURRICULUM**

Students may enter the program in any semester term. The program may be completed in 1 semester. To graduate, students must earn a minimum of 14 credit hours.

### **CURRICULUM OUTLINE**

#### **OCCUPATIONAL COURSES and CREDIT HOURS (14 Hours Required)**

COLL 1040	College Foundations (Institutional Credit Only)	3 Credit Hours
MATH 1012	Foundations of Mathematics	3 Credit Hours
IDFC 1007	Industrial Safety Procedures	2 Credit Hours
IDFC 1011	Direct Current I	3 Credit Hours
ELTR 1020	Electrical Systems Basics I	3 Credit Hours

**PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$1,349

Books/Supplies: \$3,600

## **FLUX CORED ARC WELDER CERTIFICATE PROGRAM**

### **Major Code FC61**

The Flux Cored ARC Welder (FCAW) Technical certificate program prepares an individual for employment within the welding and fabrication industry as well as similar working environments where FCAW applications are required.

### **EMPLOYMENT OPPORTUNITIES**

The demand for trained welders is great, with many well-paying job opportunities available upon program completion.

### **LICENSURE**

There is no specific licensure that applies to either welding program. However, graduates of this program would be better prepared to qualify for select industry certifications and those employers conduct.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **FLUX CORED ARC WELDER CURRICULUM**

The standard curriculum for the Flux Cored ARC Welder (FCAW) certificate program is designed for the semester system. Students are encouraged to begin the program in the Fall semester to maximize their progress toward completion. However, students may begin the program any semester. The program generally takes 2 semesters to complete. To graduate, students must earn a minimum of 16 semester hours.

## CURRICULUM OUTLINE

### **OCCUPATIONAL COURSES and CREDIT HOURS (16 Hours Required)**

WELD 1000	Introduction to Welding Technology	4 Credit Hours
WELD 1010	Oxyfuel Cutting and Plasma Arc Cutting	4 Credit Hours
WELD 1153	Flux Cored Arc Welding	4 Credit Hours
WELD 1030	Blueprint Reading for Welders	4 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$1,349

Books/Supplies: \$325

## **GAS METAL ARC WELDER CERTIFICATE PROGRAM**

### **Major Code GM31**

The Gas Metal Arc Welder Technical certificate program prepares an individual for employment within the welding and fabrication industry as well as similar working environments where GMAW applications are required.

### **EMPLOYMENT OPPORTUNITIES**

The demand for trained welders is great, with many well-paying job opportunities available upon program completion.

### **LICENSURE**

There is no specific licensure that applies to either welding program. However, graduates of this program would be better prepared to qualify for select industry certifications and those employers conduct.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **GAS METAL ARC WELDER CURRICULUM**

The standard curriculum for the Gas Metal Arc Welder certificate program is designed for the semester system. Students are encouraged to begin the program in the Fall semester to maximize their progress toward completion. However, students may begin the program any semester. The program generally takes 1 semester to complete. To graduate, students must earn a minimum of 16 semester hours.

## CURRICULUM OUTLINE

### **OCCUPATIONAL COURSES and CREDIT HOURS (16 Hours Required)**

WELD 1000	Introduction to Welding Technology	4 Credit Hours
WELD 1010	Oxyfuel Cutting and Plasma Arc Cutting	4 Credit Hours
WELD 1090	Gas Metal Arc Welding	4 Credit Hours
WELD 1030	Blueprint Reading for Welders	4 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$1,349

Books/Supplies: \$325



## **GAS TUNGSTEN ARC WELDER CERTIFICATE PROGRAM**

### **Major Code GTA1**

The Gas Tungsten Arc Welder (GTAW) Technical certificate program prepares an individual for employment within the welding and fabrication industry as well as similar working environments where GTAW applications are required.

### **EMPLOYMENT OPPORTUNITIES**

The demand for trained welders is great, with many well-paying job opportunities available upon program completion.

### **LICENSURE**

There is no specific licensure that applies to either welding program. However, graduates of this program would be better prepared to qualify for select industry certifications and those employers conduct.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **GAS TUNGSTEN ARC WELDER CURRICULUM**

The standard curriculum for the Gas Tungsten Arc Welder (GTAW) certificate program is designed for the semester system. Students are encouraged to begin the program in the Fall semester to maximize their progress toward completion. However, students may begin the program any semester. The program generally takes 1 semester to complete. To graduate, students must earn a minimum of 16 semester hours.

## CURRICULUM OUTLINE

### **OCCUPATIONAL COURSES and CREDIT HOURS (16 Hours Required)**

WELD 1000	Introduction to Welding Technology	4 Credit Hours
WELD 1010	Oxyfuel Cutting and Plasma Arc Cutting	4 Credit Hours
WELD 1110	Gas Tungsten Arc Welding	4 Credit Hours
WELD 1030	Blueprint Reading for Welders	4 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$1,349

Books/Supplies: \$325

## **SWAINSBORO CAMPUS – HEAVY DUTY TRUCK TECHNICIAN**

### **Major Code HD61**

The Heavy Duty Truck Technician certificate program provides training in the essential knowledge, skills, and attitudes necessary for employment as a maintenance technician on semi-trucks, trailers or other diesel equipment. The topics covered include diesel engines, shop safety, tools and equipment, preventive maintenance procedures, truck brake systems, and truck drive trains.

### **EMPLOYMENT OPPORTUNITIES**

The Heavy Duty Truck Technician program is intended to prepare graduates for entry-level jobs in truck maintenance field.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **HEAVY DUTY TRUCK TECHNICIAN CURRICULUM**

The standard curriculum for the Heavy Duty Truck Technician is designed for the semester system. Students may enter the Diesel Truck Maintenance Technician program any semester. A full-time student can complete this program in 3 semesters. To graduate, students must earn a minimum of 33 semester credit hours.

## CURRICULUM OUTLINE

### **OCCUPATIONAL COURSES and CREDIT HOURS (35 Hours Required)**

DIET 1001	Heavy Duty Truck Introduction and Inspection	3 Credit Hours
DIET 1015	Heavy Duty Truck Electrical/Electronics I	3 Credit Hours
DIET 1035	Heavy Duty Truck Engines I	3 Credit Hours
DIET 2005	Heavy Duty Truck Steering and Suspension	3 Credit Hours
DIET 1016	Heavy Duty Truck Electrical/Electronics II	3 Credit Hours
DIET 1036	Heavy Duty Truck Engines II	3 Credit Hours
DIET 2004	Basic Hydraulic System Operation and Repair	3 Credit Hours
DIET 1045	Heavy Duty Truck HVAC	3 Credit Hours
DIET 2015	Heavy Duty Truck Brakes	3 Credit Hours
DIET 2025	Heavy Duty Truck Drive Trains	3 Credit Hours
DIET 2030	Trailer Maintenance and Repair	3 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$2,410

Books/Supplies: \$660

**SWAINSBORO CAMPUS – NCCER INDUSTRIAL MAINTENANCE FUNDAMENTALS  
CERTIFICATE PROGRAM**  
**Major Code IMF1**

Industrial system maintenance personnel, technicians, electricians, millwrights, and other related jobs are charged with inspecting, maintaining, troubleshooting, and repairing commercial and industrial mechanical and electrical systems. These systems are found in manufacturing applications, assembly lines, and production facilities. The complex machinery found in each of these situations need technicians to install, service, troubleshoot, maintain, and repair the machinery in order for the companies to maintain a high level of productivity.

**EMPLOYMENT OPPORTUNITIES**

Program graduates receive an Industrial Maintenance Fundamentals Certificate, which prepares the graduate for entry-level positions as an Industrial systems technician/electrician.

**ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

**INDUSTRIAL MAINTENANCE Fundamentals CURRICULUM**

Students may enter the program in any semester term. The program may be completed in 1-2 semesters. To graduate, students must earn a minimum of 10 credit hours.

## CURRICULUM OUTLINE

### **OCCUPATIONAL COURSES and CREDIT HOURS (10 Hours Required)**

COFC 1080	Construction Trades Core	4 Credit Hours
ICMT 1010	Industrial Maintenance Fundamentals 1	3 Credit Hours
ICMT 1020	Industrial Maintenance Fundamentals 2	3 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$1,500

Books/Supplies: \$500

## **SWAINSBORO CAMPUS – NCCER INDUSTRIAL MAINTENANCE INTERMEDIATE TECHNICIAN CERTIFICATE PROGRAM**

### **Major Code IL71**

The Industrial Maintenance Intermediate Technician Certificate will provide students the occupational knowledge and skills necessary for the entry-level employment as an Industrial systems technician/electrician.

### **EMPLOYMENT OPPORTUNITIES**

Program graduates receive an Industrial Maintenance Technician Technical certificate of credit, which prepares the graduate for entry-level positions as an Industrial systems technician/electrician.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **INDUSTRIAL MAINTENANCE intermediate technician CURRICULUM**

Students may enter the program in any semester term. The program may be completed in 1-3 semesters. To graduate, students must earn a minimum of 15 credit hours.

### **CURRICULUM OUTLINE**

#### **OCCUPATIONAL COURSES and CREDIT HOURS (15 Hours Required)**

COFC 1080	Construction Trades Core	4 Credit Hours
ICMT 1030	Industrial Electrical Fundamentals	4 Credit Hours
ICMT 1040	Intermediate Industrial Maintenance 1	3 Credit Hours
ICMT 1050	Intermediate Industrial Maintenance 2	4 Credit Hours

**PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$2,873

Books/Supplies: \$3,600



**SWAINSBORO CAMPUS – NCCER INDUSTRIAL MAINTENANCE TECHNICIAN  
CERTIFICATE PROGRAM**  
**Major Code IK71**

The Industrial Maintenance Technician Certificate will provide students the occupational knowledge and skills necessary for the entry-level employment as an Industrial systems technician/electrician.

**EMPLOYMENT OPPORTUNITIES**

Program graduates receive an Industrial Maintenance Technician Technical certificate of credit, which prepares the graduate for entry-level positions as an Industrial systems technician/electrician.

**ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

**INDUSTRIAL MAINTENANCE TECHNICIAN CURRICULUM**

Students may enter the program in any semester term. The program may be completed in 3 semesters. To graduate, students must earn a minimum of 25 credit hours.

## CURRICULUM OUTLINE

### **OCCUPATIONAL COURSES and CREDIT HOURS (25 Hours Required)**

COFC 1080	Construction Trades Core	4 Credit Hours
ICMT 1010	Industrial Maintenance Fundamentals 1	3 Credit Hours
ICMT 1020	Industrial Maintenance Fundamentals 2	3 Credit Hours
ICMT 1030	Industrial Electrical Fundamentals	4 Credit Hours
ICMT 1040	Intermediate Industrial Maintenance 1	3 Credit Hours
ICMT 1050	Intermediate Industrial Maintenance 2	4 Credit Hours
ICMT 1060	Hydraulics and Pneumatics	4 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$2,873

Books/Supplies: \$3,600

## **VIDALIA CAMPUS - RESIDENTIAL WIRING TECHNICIAN CERTIFICATE PROGRAM** **Major Code RW61**

The Residential Wiring Technical Certificate of Credit prepares students for employment in the construction industry as qualified residential wiring technicians.

### **EMPLOYMENT OPPORTUNITIES**

Program graduates receive a Residential Wiring Technician Technical certificate of credit, which prepares the graduate for entry-level positions in the residential wiring field.

### **ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

### **RESIDENTIAL WIRING TECHNICIAN CURRICULUM**

The standard curriculum for the Residential Wiring Technician certificate program is designed for the semester system. Students may enter the program in any semester term. The program may be completed in 1-2 semesters. To graduate, students must earn a minimum of 13 credit hours.

### **CURRICULUM OUTLINE**

#### **OCCUPATIONAL COURSES and CREDIT HOURS (13 Hours Required)**

IDFC 1007	Industrial Safety Procedures	2 Credit Hours
ELTR 1020	Electrical Systems Basics 1	3 Credit Hours
ELTR 1060	Electrical Prints, Schematics and Symbols	2 Credit Hours
ELTR 1205	Residential Wiring I	3 Credit Hours
ELTR 1210	Residential Wiring II	3 Credit Hours

**PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$1,848

Books/Supplies: \$631

**SWAINSBORO CAMPUS**  
**WILDLIFE MANAGEMENT ASSISTANT CERTIFICATE PROGRAM**  
**Major Code WP11**

The Wildlife Management Assistant Certificate is for Fish and Wildlife Management. This certificate will provide students with the basic knowledge and skills needed to obtain employment as a Wildlife Management Assistant. The certificate emphasizes vertebrate identification, physiology, nutrition and plant identification. In addition, this certificate emphasizes the importance of wildlife policy and law.

**EMPLOYMENT OPPORTUNITIES**

The Wildlife Management Assistant certificate is a sequence of courses that prepares students for careers as wildlife technician assistants. The program will provide students knowledge and skills needed to obtain employment as assistants in state and national parks, game and preserve assistants, and campground managers.

**ADMISSIONS CRITERIA**

- Submit a completed application and application fee;
- Be at least 16 years of age;
- Submit an official copy of your high school transcript or high school equivalent scores;
- Submit official college transcripts, if applicable;
- Meet the following assessment requirements:

<b>Test</b>	<b>Reading</b>	<b>Writing</b>	<b>Numerical</b>	<b>Algebra</b>
ACCUPLACER	55	60	34	
ASSET	38	37	32	
COMPASS	70	32	26	
SAT	24	25	22	
ACT	13	12	17	
GAHSGT	235	235		

**WILDLIFE MANAGEMENT ASSISTANT CURRICULUM**

The standard curriculum for the Wildlife Management Assistant certificate program is designed for the semester system. Students may enter the program each semester. The program may be completed in 2 semesters. To graduate, students must earn a minimum of 12 credit hours.

## CURRICULUM OUTLINE

### **OCCUPATIONAL COURSES and CREDIT HOURS (12 Hours Required)**

FWMT 1000 Intro to Wildlife Management	3 Credit Hours
FWMT 1020 Wildlife Policy and Law	3 Credit Hours
FWMT 1070 Mammalogy	3 Credit Hours
FORS 1030 Dendrology	3 Credit Hours

### **PROGRAM COSTS**

(Costs are estimates and are subject to change)

Tuition/Fees: \$1,264

Books/Supplies: \$490