



Program Syllabus

Plumbing

Offered on Main Campus

Program Number: C500500

Program Hours: 1080

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ECTC Mission Statement: We empower today's students to meet the demands of an evolving and competitive workforce.

The purpose of the program reflects Emerald Coast Technical College's mission as evidenced by the desire to provide students with the training and education that is required to function successfully in the professional workforce.

Rules and Regulation/Policies and Procedures:

Students will follow all rules outlined in the Emerald Coast Technical College Catalog.

PROGRAM DESCRIPTION: The Plumbing program prepares students to practice as certified plumbers by applying technical knowledge, safety and skills to lay out, assemble, install and maintain plumbing systems, natural gas piping to water heaters, furnace, and stoves, basic physics, technical mathematics, blueprint reading, pipe installation, pumps, brazing and soldering, plumbing inspection and applicable codes and standards in residential and commercial settings within the plumbing industry. The program combines classroom and practical learning experiences including many community service projects. The Plumbing program prepares students for entry-level employment, or advanced training, and a variety of pipe occupations by focusing on broad, transferable skills, and stressing the understanding of all aspects of the plumbing industry.

OCP	Course Number	Course Title	Teacher Certification	Length	SOC Code
A	BCV0508	Plumbers Helper	PLUMBIN @7 7G	360 Hours	47-3015
B	BCV0540	Residential Plumber	BLDG CONST ¶ 7 ¶ G TEC CONSTR ¶ 7 ¶ G	240 Hours	47-2152
C	BSV0562	Commercial Plumber		240 Hours	47-2152
D	BSV0596	Plumbing Applications		240 Hours	47-2152
				1080 HOURS TOTAL	



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TOOLS / SUPPLIES:

HOW YOU ARE MEASURED (GRADES):

40% Competency/Performance Evaluation (Daily assignments, homework and lab activities)

40% Evaluation (Written Exams and Major Projects)

20% Work Order/Professionalism: Ability to communicate with customers and complete assigned tasks.

Grading Scale:

A 93-100

B 84-92

C 70-83

F 69 & Below

Satisfactory Progress:

This program is a planned sequence of instruction consisting of three occupational completion points. When the recommended sequence is followed, the structure is intended to prepare students to complete the industry certifications associated with this program of study. This program adheres to the Satisfactory Progress guidelines listed in the ECTC Catalog.

MAJOR COURSE OBJECTIVES:

The courses content includes, but is not limited to:

1. Identify safe working conditions at the laboratory and workplace, and observe safety precautions.
2. Demonstrate an understanding of basic plumbing skills.
3. Demonstrate appropriate communication skills.
4. Apply plumbing related basic math.



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5. Demonstrate an understanding of basic plumbing.
6. Demonstrate employability skills.
7. Read and interpret basic plumbing codes.
8. Demonstrate an understanding of entrepreneurship.
9. Demonstrate positive customer-relations skills.
10. Demonstrate proficiency of drainage, waste and venting (DWV)
11. Install residential plumbing.
12. Demonstrate proficiency in residential plumbing.
13. Demonstrate specialized plumbing skills.
14. Demonstrate proficiency in commercial plumbing
15. Demonstrate competency in water distribution systems.

Instructional Delivery Methods:

This program is a traditional program taught on ECTC campus. It uses a variety of instructional delivery methods including but not limited to:

- ❖ Hands-on training
- ❖ Lectures
- ❖ Videos
- ❖ Web-based programs

PROGRESS:

Students will be provided with detailed assignment sheets for each major area/topic of study. Complete mastery of an area must be achieved before proceeding further. **Students are responsible for maintaining a sufficient rate of progress throughout the course**, consistent with their individual student ability.

LAB SHEETS:

Student must demonstrate an understanding of theory and basic principles prior to starting labs and major projects.

CONFERENCES AND ASSISTANCE:

You are encouraged to come to instructor's office to talk over any problems you may have in this course. Students needing assistance with problems will research along with the instructor all possibilities and utilize all reference materials to achieve a solution. Subject-related problems can be presented to the class for research upon instructor's approval. Class interaction and discussion concerning occupational area is encouraged.

CLASS HOURS:

Class hours are 12:15PM-4pm & 12:15PM-8:15PM, 4pm-9pm & 5:15pm-9pm, Monday - Thursday

OFFICE HOURS:

Regular office hours for the instructor are Monday – Thursday, or as scheduled by appointment.

STUDENT RESPONSIBILITIES:



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Students are expected to understand and follow all school rules and policies. Students are responsible for class, lab and equipment/tool care. Students are responsible for maintaining proper industry work habits and conduct. Clean-up is the responsibility of all students and will be conducted daily.

EXAMINATIONS:

The course examinations consist of written knowledge examinations and performance evaluations. A knowledge examination is given upon completion of each major topic assignment. Performance evaluation must be mastered before proceeding to the next assignment. Students will be able to repeat performance evaluations until complete mastery is achieved. At the end of each module (chapter) an exam will be required before moving forward in the course work. All exams will be conducted online and proctored.

LAB STATION EQUIPMENT:

You will be assigned specific equipment for your labs. The equipment you will use is reliable. However, with abuse or misuse, it will malfunction and become inoperable. Be careful and have the instructor demonstrate the use of the equipment before using it for the first time. Read all instructions carefully and ask questions prior to use. Keep your work area and lab areas clean and orderly while performing assignments. Return all software, equipment and lab components to the proper storage area before departing at the end of the period. The classroom lab will be clean and secured at the end of each project or period whichever comes first. If a lab assignment will take more than one day notify the instructor and secure all parts and project at the end of the period.

EARNING INDUSTRY CERTIFICATION:

- Students will complete course work through each module of the Level textbook that they are working in (example: students enrolled in Level 1 Plumbing will test through 12 modules before earning the NCCER Plumbing Level 1 certification).
- Each student will take a proctored exam for each module in the Level text that they are working in.
 - After satisfactory scoring 70% or higher on all modules of the level, students will receive an industry certification along with a NCCER Certificate.

Classroom Location:

761 N. 20th Street DeFuniak Springs, Florida 32433
Building 100 Room 052

Office Location:

761 N. 20th Street DeFuniak Springs, Florida 32433
Building 100 Room 052

Office Hours:

Regular office hours for the instructor are 12:15PM – 9:00PM. (Mon-Thurs) or as scheduled by appointment.

Attendance:

Attendance is mandatory. Students who believe that attendance may present a problem should discuss their situation with the instructor and with student services. Meet with instructor to schedule makeup hours



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Equipment:

Students will checkout and check in all tools that are not part of their tool kit from the tool room.

Suspicion of Alcohol or Drugs

- If any student is suspected of being under the influence of drugs or alcohol, the student will be required to get tested. Upon refusal, the student could be subject to expulsion based on Walton County School District Student Code of Conduct.
- Students vehicles while parked on ECTC campus is subject to be searched based on suspicion of drugs and alcohol.

Safety:

- Safety is priority one.
- Report any unsafe conditions to the instructor immediately.
- If you are not comfortable or confident with any lab or project, stop and notify instructor.

Emergency Procedures:

- Emergency exits are clearly marked.
- As part of regular classroom instruction, students will be asked to participate in regular safety and emergency drills.
- Fire extinguishers are in each area.

Rules and Regulation / Policies and Procedures:

Students will follow all rules/regulations outlined in the Emerald Coast Technical College Catalog.

General Information:

Refer to the ECTC Catalog located at <http://www.ECTC.edu>, for additional information:

- Career and Counseling Services
- Services for Students with Disabilities
- Student Grievance Procedures
- Leave of Absence
- Withdrawal
- Forms