HVAC IIIB (Spring 2024)

Welcome back to the HVAC Apprenticeship program and Spring semester of level 3!

I understand you are a busy person, successful people are, and I strongly encourage you to set aside the time you will need to learn and master the content within each module. To facilitate this, establish a study schedule and stick to it. If you are substantially engaged in the textbooks and Pearson online materials, on a near-daily basis, your study habits will improve and your knowledge and skills will increase.

Attendance and engagement in the online material is critical to your success in this course. Particularly, attendance is a requirement and metric used to determine successful completion of your apprenticeship program.

Pay close attention to the schedule outlined below and be prepared (read the material and write down questions to ask) for the lecture. As the semester progresses, there could be a need to adjust the schedule. I will use text messaging to communicate schedule changes and reminders to the class. If your phone does not accept text messages, you will need to speak with me and arrange for a different mode of communication. We will meet for lecture and lab at the Superior Water and Air site located at 3536 S. 1950 W.

We will continue to use *Heating, Ventilating, and Air* Conditioning, Level 3, 5th edition—the same textbook we used during the Fall semester. We will continue to use the Learning Management System (LMS) on the website of our textbook's publisher—Pearson. All textbook-related assignments, and exam preparation materials, will only be available via this LMS. If you registered for the Pearson course during the Fall semester, you should still be registered and have access for Spring semester.

The following schedule will be our guide to learning this semester. As usual, there are assignments in Pearson for each module. Due to their nature, scheduled labs will be performed as a class and cannot be made up.

January 9, 2024	HVAC IIIB Introduction
	Module 2 Section 1 HVACR Control Device Operation
January 16, 2024	Module 2 Section 2 Thermostats and Temperature Controls
	Lab 1 Magnetic Logic and Controls
January 23, 2024	Module 2 Section 3 Troubleshooting Circuits and Load Components
	Lab 2 Troubleshooting Circuits and Load Components
January 30, 2024	Module 2 Section 4 Variable Frequency Drives
	Module 2 Section 5 Electronically Commutated Motors

February 6, 2024	Lab 3 VFD and ECM Familiarization, Application, and Operation
	Module 2 Review
February 13, 2024	Module 2 Exam
	Module 3 Section 1 Refrigeration Cycle Operation and Troubleshooting
February 20, 2024	Module 3 Section 2 Compressor Troubleshooting and Replacement
	Module 3 Review
	Lab 4 Compressor and Start Component Troubleshooting
February 27, 2024	Module 3 Exam
	Module 7 Section 1 Accessory Troubleshooting
March 5, 2024	Spring Break—No School
March 12, 2024	Module 7 Section 2 Outside Air Accessory Troubleshooting
	Module 7 Review
March 19, 2024	Module 7 Exam
	Module 8 Section 1 Common Zoning Systems
March 26, 2024	Module 8 Section 2 Ductless and Variable Refrigerant Flow (VRF) Systems
	Module 8 Review
April 2, 2024	Module 8 Exam
	Module 11 Section 1 Basic Refrigeration System Operation
	Module 11 Section 2 Retail Refrigeration Equipment
April 9, 2024	Module 11 Section 3 Retail Refrigeration System Components
	Module 11 Section 4 Troubleshooting Retail Refrigeration Systems
	Module 11 Review
April 16, 2024	Module 11 Exam
	Module 12 Section 1 The Technician’s Role in Customer Relations
	Module 12 Section 2 Handling Service Calls
April 23, 2024	Module 12 Exam
	Final Exam Review
April 30, 2024	Final Exam

Your final grade for the semester will be calculated as follows:

Assignments and Labs	35% of final grade
Module Exams	40% of final grade
Final Exam	25% of final grade

The following grading standards will be used in this class:

Grade	Range
A	100% to 94%
A-	< 94% to 90%
B+	< 90% to 87%
B	< 87% to 84%
B-	< 84% to 80%
C+	< 80% to 77%
C	< 77% to 74%
C-	< 74% to 70%
D+	< 70% to 67%
D	< 67% to 64%
D-	< 64% to 61%
F	< 61% to 0%