HVAC IB (Spring 2024)

Welcome back to Spring semester and the second half of Level 1!

One of the objectives this semester is for each student to obtain their Universal EPA Section 608 (refrigerant handling) Certification. You will need to obtain a copy of the study guide *EPA Section 608 Preparatory Manual, 9th Edition V2* by ESCO Institute. You can order a copy from ESCO's website or from Amazon with **ISBN: 1-930044-60-7.** Please order this pamphlet immediately so you will have it when needed.

Attendance in class and engagement in the online material, via the Pearson learning management system, 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 make adjustments to 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 form of communication. We will meet for lecture and lab at the Superior Water and Air site located at [redacted]

We will continue to use *Heating, Ventilating, and Air* Conditioning, Level 1, 5th edition as we did Fall semester. We will also 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. To be successful in this course, you will need to register for this course on Pearson's website and access this course frequently to supplement your study of the textbook.

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 8, 2024	HVAC IB Introduction
	Module 5 Section 1 Refrigeration Cycle Fundamentals
January 15, 2024	Holiday—No School
January 22, 2024	Module 5 Section 1 Refrigeration Cycle Fundamentals—Continued
	Module 5 Section 2 Refrigerants
January 29, 2024	Module 5 Section 3 Cooling System Components
	Module 5 Section 4 Cooling System Control
February 5, 2024	Module 5 Review
	Lab 1 Superheat and Sub-Cooling

February 12, 2024	Module 5 Exam
	EPA 608 Study Preparation
February 19, 2024	Holiday—No School
February 26, 2024	EPA 608 Study Preparation
March 4, 2024	Spring Break—No School
March 11, 2024	EPA 608 Exam
	Module 9 Section 1
March 18, 2024	Module 9 Section 2
	Module 9 Section 3
March 25, 2024	Module 9 Review
	Lab 2 Iron pipe threading and grooving
April 1, 2024	Module 9 Exam
	Module 7 Section 1 Copper Tubing and Fittings
April 8, 2024	Module 7 Section 2 Joining Copper Tubing and Fittings
	Module 7 Section 3 Plastic Piping
	Module 7 Review
	Lab 3 Plastic Piping
April 15, 2024	Module 7 Exam
	Module 8 Section 1 Soldering
	Module 8 Section 2 Brazing Copper Fittings and Tubing
April 22, 2024	Lab 4 Soldering, Brazing and Flaring
	Module 8 Exam
	Course Review and Final Exam Preparation
April 29, 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%