



RELATED INSTRUCTION OUTLINE OF THE

HVAC CURRICULUM

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(4th Edition)

HVAC LEVEL 2			
Module #	Module Name	Module Objectives	Perf. Profile
1	03206-13 <i>Alternating Current</i>	Covers transformers, single-phase and three-phase power distribution, capacitors, the theory and operation of induction motors, and the instruments and techniques used in testing AC circuits and components. Also reviews electrical safety.	Yes
2	03302-13 <i>Compressors</i>	Explains operating principles of compressors used in comfort air conditioning and refrigeration systems. Includes installation, service, and repair procedures	Yes
3	03301-13 <i>Refrigerants and Oils</i>	Covers characteristics and applications of pure and blended refrigerants and provides extensive coverage of lubricating oils used in refrigeration systems.	Yes
4	03205-13 <i>Leak Detection, Evacuation, Recovery, and Charging</i>	Covers refrigerant handling and equipment servicing procedures for HVAC systems in an environmentally safe manner.	Yes
5	03303-13 <i>Metering Devices</i>	Covers the operating principles, applications, installation, and adjustment of fixed and adjustable expansion devices used in air conditioning equipment.	Yes
6	03211-13 <i>Heat Pumps</i>	Covers the principles of reverse cycle heating. Describes the operation of heat pumps and explains how to analyze heat pump control circuits. Includes heat pump installation and service procedures.	Yes
7	03215-13 <i>Basic Maintenance</i>	Covers information related to maintenance-oriented materials, as well as guidelines for the inspection and periodic maintenance of various systems and accessories. Also covers the application of gaskets and seals, as well as the adjustment of different types of belt drives. Includes information on inspection and maintenance requirements for selected equipment.	Yes
8	03202-13 <i>Chimneys, Vents, and Fuels</i>	Covers the principles of venting fossil fuel furnaces and methods for selecting and installing vent systems for gas-fired heating equipment.	No
9	03213-13 <i>Sheet Metal Duct Systems</i>	Covers layout, fabrication, installation, and insulation of sheet metal ductwork. Also includes selection and installation of registers, diffusers, dampers, and other duct accessories.	No
10	03214-13 <i>Fiberglass and Fabric Duct Systems</i>	Covers the layout, fabrication, installation, and joining of fiberglass ductwork and fittings. Describes the proper methods for attaching and supporting flex duct.	No
11	03201-13 <i>Commercial Airside Systems</i>	Describes the systems, equipment, and operating sequences commercial airside system configurations such as constant volume single-zone and multi-zone, VVT, VAV, and dual-duct VAV.	No
12	03204-13 <i>Air Quality Equipment</i>	Covers principles, processes, and devices used to control humidity and air cleanliness, as well as devices used to conserve energy in HVAC systems.	No
13	03203-13 <i>Introduction to Hydronic Systems</i>	Introduces hot water systems, focusing on safe operation of the low-pressure boilers and piping systems in residential applications.	No