

Industrial Maintenance/HVAC, A.A.S.

Program Code

AAS-ADMA-IMTA

CIP

15.0613

Type

A.A.S.

The Associate of Applied Science degree in Advanced Manufacturing with a concentration in Industrial Maintenance/HVAC will prepare graduates for employment as entry-level HVAC technicians. Concepts covered in the concentration include fundamentals of electric and gas heating systems, refrigerant transition and recovery, commercial/industrial wiring, and NEC Codes.

GENERAL EDUCATION CORE REQUIREMENTS

Item #	Title	Credits
ENG 101	English Composition I	3
MTH 103	Introduction to Technical Mathematics	3
	Humanities/Fine Arts Elective (Excluding Speech and Foreign Language)	3
	Social & Behavioral Science Electives	3
	Natural Science or MTH Elective	3-4

ADVANCED MANUFACTURING CORE COURSE REQUIREMENTS

Item #	Title	Credits
ADM 101	Precision Measurement	3
ADM 104	Introduction to Thermal/Electrical Principles	3
ADM 105	Fluid Systems	3
ADM 106	Quality Control Concepts	3
	ADM 107 OR ADM 108	3
ADM 111	Manufacturing Safety Practices	3

BASIC ELECTRICITY COURSE REQUIREMENTS

Item #	Title	Credits
ELT 108	DC Fundamentals	3
ELT 109	AC Fundamentals	3
ELT 110	Wiring Methods	3
ELT 117	AC/DC Machines	3

HVAC COURSE REQUIREMENTS

Item #	Title	Credits
ACR 113	Refrigeration Piping Practices	3
ACR 119	Fundamentals of Gas Heating Systems	3
ACR 120	Fundamentals of Electric Heating Systems	3
ACR 147 (3T)	Refrigeration Transition and Recovery	3
ACR 205	System Sizing and Air Distribution	3
ELT 118	Commercial/Industrial Wiring I	3
ELT 241	National Electric Code	3
	Total Credits	66-67