

APPLIED ENGINEERING & TECHNOLOGIES

FACILITY MAINTENANCE TECHNOLOGY

Facility Maintenance Technology Degree – A50190

The Facility Maintenance Technology curriculum prepares individuals to repair and maintain electrical and mechanical systems and physical structures of commercial and industrial institutions. Emphasis is on multi-disciplined systems maintenance, troubleshooting, and problem resolution.

Course work includes plumbing, electrical, air conditioning, heating, blueprint reading, building codes, and OSHA regulations, as well as computer applications.

Graduates should qualify for positions as general building mechanics or maintenance technician.

Facility Maintenance Technology Diploma – D50190

Facility Maintenance Technology: Electrical Systems Certificate – C50190A

Facility Maintenance Technology: HVACR Certificate – C50190B

Basic Facilities Technology I Certificate – C50190D

Basic Facilities Technology II Certificate – C50190E

Program Sequence

First Semester

AHR 110	Introduction to Refrigeration.....	5
AHR 112	Heating Technology.....	4
ELC 118	National Electrical Code.....	2
ELC 131*	Circuit Analysis I.....	4

Second Semester

AHR 120	HVACR Maintenance.....	2
BAT 111	Building Automation Systems.....	2
ELC 114	Commercial Wiring.....	4
ENG 110	Freshman Composition.....	3
MNT 110	Intro to Maintenance Procedures.....	2

Third Semester

BPR 130	Print Reading-Construction.....	3
ELC 127	Software for Technicians.....	2
ELN 231	Industrial Controls.....	3
	Major Elective.....	5

Completes Facility Maintenance Technology: Electrical Systems Certificate (C50190A): ELC 112, ELC 113, ELC 114, ELC 118, ELC 127

Completes Facility Maintenance Technology: HVACR Certificate (C50190B): AHR 111, AHR 112, AHR 113, AHR 120, BPR 130

Completes Basic Facilities Technology I Certificate (C50190D): AHR 111, AHR 112, AHR 113, ELC 113

Fourth Semester

AHR 215	Commercial HVAC Controls.....	2
BAT 221	BAS Networking.....	3
BAT 251	Building Automation Controls.....	3
COM 120	Intro to Interpersonal Communication.....	3
ELN 235	Data Communication Systems.....	4

Fifth Semester

HUM 110	Technology and Society.....	3
ISC 121	Environmental Health & Safety.....	3
MAT 110	Math Measurement & Literacy.....	3
MCO 110	Intro to Mission Critical Operations.....	3
PSY 118	Interpersonal Psychology.....	3

Completes Facility Maintenance Technology Diploma (D50190): AHR 110, AHR 112, AHR 120, BAT 111, BPR 130, ELC 114, ELC 118, ELC 127, ELC 131, ELN 231, ENG 110, MNT 110, PSY 118

Completes Basic Facilities Technology II Certificate (C50190E): BPR 130, ELC 114, ELC 118, ELC 127, ISC 121

Major Electives

(Select 5 hours from the following courses):

AHR 111	HVACR Electricity.....	3
AHR 113	Comfort Cooling.....	4
BAT 212	BAT Logic and Programming.....	3
ELC 113	Residential Wiring.....	4
ELC 128	Intro to Programmable Logic Controller.....	3
WBL 111	Work-Based Learning I.....	1
WBL 112	Work-Based Learning I.....	2

*ELC 112 is an allowable substitution for ELC 131.

Graduation Requirements 71 Credit Hours