CURRICULUM STANDARD

Curriculum Program Title	**Facility Maintenance Technology**	Program Code	**A50190**
Concentration	**(not applicable)**	CIP Code	*46.0401*

Curriculum Description

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

Course work includes electrical, air conditioning, heating, computer applications, building automation and controls, facility maintenance, print reading, and industrial safety, with tracks in multi-trades or systems technologies.

Graduates should qualify for positions as maintenance technicians in commercial and industrial facilities.

Curriculum Requirements*
[for associate degree, diploma, and certificate programs in accordance with 1D SBCCC 400.10]

I. **General Education.** Degree programs must contain a minimum of 15 semester hours including at least one course from each of the following areas: humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Degree programs must contain a minimum of 6 semester hours of communications. Diploma programs must contain a minimum of 6 semester hours of general education; 3 semester hours must be in communications. General education is optional in certificate programs.

II. **Major Hours**. AAS, diploma, and certificate programs must include courses which offer specific job knowledge and skills. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit. *(See second page for additional information.)*

III. **Other Required Hours.** A college may include courses to meet graduation or local employer requirements in a certificate, diploma, or associate in applied science program. These curriculum courses shall be selected from the Combined Course Library and must be approved by the System Office prior to implementation. Restricted, unique, or free elective courses may not be included as other required hours.

	AAS	Diploma	Certificate
Minimum General Education Hours	15	6	0
Minimum Major Hours	49	30	12
Other Required Hours	0-7	0-4	0-1
Total Semester Hours Credit (SHC)	**64-76**	**36-48**	**12-18**

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*Within the degree program, the institution shall include opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and basic use of computers.

Major Hours

A. **Core.** The subject/course core is comprised of subject areas and/or specific courses which are required for each curriculum program. A diploma program offered under an approved AAS program standard or a certificate which is the highest credential level awarded under an approved AAS program standard must include a minimum of 12 semester hours credit derived from the subject/course core of the AAS program.

B. **Concentration** *(if applicable).* A concentration of study must include a minimum of 12 semester hours credit from required subjects and/or courses. The majority of the course credit hours are unique to the concentration. The required subjects and/or courses that make up the concentration of study are in addition to the required subject/course core.

C. **Other Major Hours.** Other major hours must be selected from prefixes listed on the curriculum standard. A maximum of 9 semester hours of credit may be selected from any prefix listed, with the exception of prefixes listed in the core or concentration. Work-based learning may be included in associate in applied science degrees up to a maximum of 8 semester hours of credit; in diploma programs up to a maximum of 4 semester hours of credit; and in certificate programs up to a maximum of 2 semester hours of credit.

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	AAS	Diploma	Certificate
Minimum Major Hours Required	**49 SHC**	**30 SHC**	**12 SHC**
A. **CORE**	**23-29 SHC**	**17-20 SHC**	

Courses required for the diploma are designated with *

Required Courses:

*	AHR	112	Heating Technology	4 SHC
*	AHR	120	HVAC Maintenance	2 SHC
	BAT	111	Building Automation Systems	2 SHC
*	BPR	130	Print Reading-Construction	3 SHC
	ELC	114	Commercial Wiring	4 SHC
*	MNT	110	Intro to Maint Procedures	2 SHC

Required Subject Areas. Select one of the following Tracks.
Multi-Trades Track

Carpentry. Select One:

CAR	111	Carpentry I	8 SHC
CAR	140	Basic Carpentry	4 SHC

*Plumbing. Select One:

PLU	111	Intro to Basic Plumbing	2 SHC
PLU	115	Basic Plumbing	4 SHC

Systems Technologies Track
Computer Technology. Select one:

CIS	110	Introduction to Computers	3 SHC
ELC	127	Software for Technicians	2 SHC

*Electrical. Select One:

ELC	112	DC/AC Electricity	5 SHC
ELC	131	Circuit Analysis I	4 SHC

Safety. Select One:

ISC	112	Industrial Safety	2 SHC
ISC	121	Envir Health and Safety	3 SHC

B. **CONCENTRATION** *(Not applicable)*

C.	OTHER MAJOR HOURS *To be selected from the following prefixes:* AHR, ATR, BAT, BPR, CAR, CIS, DFT, ELC, ELN, HOR, HYD, ISC, MAS, MCO, MEC, MNT, PCI, PLU, PME, REF, WBL, and WLD *Up to two semester hour credits may be selected from ACA.* *Up to three semester hour credits may be selected from the following prefixes: ARA, ASL, CHI, FRE, GER, ITA, JPN, LAT, POR, RUS and SPA.*			