

CURRICULUM STANDARD

Effective Term
Summer 2010
[2010*02]

Curriculum Program Title

Facility Maintenance Technology

Code

A50190

Concentration

(not applicable)

Curriculum Description

This 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 carpentry, interior and exterior finishes, plumbing, electrical, masonry, air conditioning, heating, welding, machining, blueprint reading, building codes, and OSHA regulations, as well as computer applications.

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

*Curriculum Requirements**

[for associate degree, diploma, and certificate programs in accordance with 23 NCAC 02E.0204 (3)]

- 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 experience, including cooperative education, practicums, and internships, 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

**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

[ref. 23 NCAC 02E.0204 (3)]

- 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 experience, including cooperative education, practicums, and internships, 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																																												
<p>A. CORE <i>Courses required for the diploma are designated with *</i></p> <p>Required Courses:</p> <table style="width: 100%; border: none;"> <tr><td style="width: 5%;">*</td><td style="width: 10%;">AHR</td><td style="width: 45%;">112 Heating Technology</td><td style="width: 40%; text-align: right;">4 SHC</td></tr> <tr><td>*</td><td>AHR</td><td>120 HVAC Maintenance</td><td style="text-align: right;">2 SHC</td></tr> <tr><td>*</td><td>BPR</td><td>130 Blueprint Reading</td><td style="text-align: right;">2 SHC</td></tr> <tr><td>*</td><td>ELC</td><td>113 Basic Wiring I</td><td style="text-align: right;">4 SHC</td></tr> <tr><td></td><td>ELC</td><td>114 Basic Wiring II</td><td style="text-align: right;">4 SHC</td></tr> <tr><td></td><td>MAS</td><td>140 Masonry</td><td style="text-align: right;">2 SHC</td></tr> <tr><td>*</td><td>MNT</td><td>110 Intro. to Maintenance Procedures</td><td style="text-align: right;">2 SHC</td></tr> </table> <p>Required Subject Areas:</p> <p>Carpentry. Select One:</p> <table style="width: 100%; border: none;"> <tr><td style="width: 5%;"></td><td style="width: 10%;">CAR</td><td style="width: 45%;">111 Carpentry I</td><td style="width: 40%; text-align: right;">8 SHC</td></tr> <tr><td></td><td>CAR</td><td>140 Basic Carpentry</td><td style="text-align: right;">4 SHC</td></tr> </table> <p>*Plumbing. Select One:</p> <table style="width: 100%; border: none;"> <tr><td style="width: 5%;"></td><td style="width: 10%;">PLU</td><td style="width: 45%;">111 Intro to Basic Plumbing</td><td style="width: 40%; text-align: right;">2 SHC</td></tr> <tr><td></td><td>PLU</td><td>115 Basic Plumbing</td><td style="text-align: right;">4 SHC</td></tr> </table>	*	AHR	112 Heating Technology	4 SHC	*	AHR	120 HVAC Maintenance	2 SHC	*	BPR	130 Blueprint Reading	2 SHC	*	ELC	113 Basic Wiring I	4 SHC		ELC	114 Basic Wiring II	4 SHC		MAS	140 Masonry	2 SHC	*	MNT	110 Intro. to Maintenance Procedures	2 SHC		CAR	111 Carpentry I	8 SHC		CAR	140 Basic Carpentry	4 SHC		PLU	111 Intro to Basic Plumbing	2 SHC		PLU	115 Basic Plumbing	4 SHC	26-32 SHC	16-18 SHC	
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B. CONCENTRATION (Not applicable)																																															
<p>C. OTHER MAJOR HOURS <i>To be selected from the following prefixes:</i></p> <p>AHR, BPR, CAR, CIS, COE, DFT, ELC, HOR, HYD, ISC, MAS, MEC, MNT, PLU, PME, and WLD</p> <p><i>Foreign language courses (including ASL) that are not designated as approved other major hours may be included in all programs up to a maximum of 3 semester hours of credit.</i></p>																																															