DEPARTMENT OF
HIGHER EDUCATION &
WORKFORCE DEVELOPMENT

New Program Report

Date Submitted:
03/25/2022

Institution
State Technical College of Missouri

Site Information

Implementation Date:
8/21/2023 12:00:00 AM

Added Site(s):

Selected Site(s):

State Technical College of Missouri, One Technology Drive, Linn, MO, 65051

CIP Information

CIP Code:
460401

CIP Description:
A program that prepares individuals to apply technical knowledge and skills to keep a building functioning, and to service a variety of structures including commercial and industrial buildings and mobile homes. Includes instruction in the basic maintenance and repair skills required to service building systems, such as air conditioning, heating, plumbing, electrical, major appliances, and other mechanical systems.

CIP Program Title:
Building/Property Maintenance

Institution Program Title:
Facilities Operations and Management

Degree Level/Type

Degree Level:
Associate Degree

Degree Type:
Associate in Applied Science

Options Added:

Collaborative Program:
N

Mode of Delivery

Current Mode of Delivery

Classroom

Student Preparation

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Special Admissions Procedure or Student Qualifications required:
None, however to be admitted into the program students must have the following:
1.) Earned a High School GPA of at least 3.0;
2.) 18 on the Reading ACT or 250 on the Accuplacer Next Gen Reading Test or 81 on the Accuplacer Reading Comprehension Test; and
3.) 18 on the English ACT or 251 on the Accuplacer Next Gen Writing Test or 81 on the Accuplacer Sentence Skills Comprehension Test.

Specific Population Characteristics to be served:
n/a

Faculty Characteristics

Special Requirements for Assignment of Teaching for this Degree/Certificate:
List special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate: All faculty appointed to teach in technical programs are hired based on experience in the discipline associated with their course/workload. Faculty that have not yet earned a bachelor's degree will be required to do so within 5.5 years of hire date. In addition, faculty that will teach in the Facilities Operations and Management program will need to earn a DESE Continuous Career Education Certificate within 6 years of hire date.

Estimate Percentage of Credit Hours that will be assigned to full time faculty:
95%-100%

Expectations for professional activities, special student contact, teaching/learning innovation:
Students are required to complete a 3-credit internship. All technical courses are experiential learning, project based that require students to apply content and skills learned in each course. Additionally, this course will include second-year experience that is a cumulation (capstone) of their course work.

Student Enrollment Projections Year One-Five

Year 1	**Full Time:** 28	**Part Time:** 0	
Year 2	**Full Time:** 50	**Part Time:** 0	
Year 3	**Full Time:** 50	**Part Time:** 0	**Number of Graduates:** 20
Year 4	**Full Time:** 72	**Part Time:** 0	
Year 5	**Full Time:** 90	**Part Time:** 0	**Number of Graduates:** 35

Percentage Statement:
n/a

Program Accreditation

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Institutional Plans for Accreditation:
State Tech will seek ATMAE accreditation for the AAS in Facilities Operations and Management program.

Timeline:
Fall 2024- October- State Tech will request for ATMAE accreditation for the Facilities Operations and Management Program; November- Faculty and appropriate administrators will completed required ATMAE training; Prepare self-study reports and supporting materials
Spring 2025- January- Dean and program faculty will prepare for visit; February- State Tech submits self-study reports and supporting materials; April- Dean and program faculty host evaluation team
Fall 2025- ATMAE Board of Accreditation holds hearings on candidate institutions; State Tech is notified that the Facilities Operations and Management program is ATMAE accredited.

Program Structure

Total Credits:
72

Residency Requirements:
25% of credits must be conferred by State Technical College of Missouri:

General Education Total Credits:
19

Major Requirements Total Credits:
53

Course(s) Added

COURSE NUMBER	CREDITS	COURSE TITLE
FAC 160	3	HVAC-Refrigeration I
FAC 210	3	Boilers
FAC 150	3	Plumbing I
FAC 255	4	Internship
FAC 240	3	Building Envelope
BUS 211	3	Management
FAC 130	4	Building Controls
CVT 122	2	Construction Safety
FAC 140	3	Electrical Wiring & Conduit
FAC 100	3	Codes and Standards
FAC 120	3	Building and Grounds
FAC 110	3	Introduction to Facilities
ELE 130	4	Circuitry Fundamentals with Lab
FAC 220	3	Plumbing II
COM 125	1	Job Search Strategies
FAC 250	3	HVAC-R Refrigeration II
WLT 128	3	Basic Welding

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ELE 120	2	Blueprint Reading and Project Development

Free Elective Credits:
0

Internship or other Capstone Experience:
All Facilities Operations and Management students are required to complete a FAC 255 4-credit internship as listed above. Taken in the summer, this internship will be overseen by an experienced skilled Facilities Operations employee. Students will be expected to be exposed and complete work tasks characteristic of professionals in this field.

Assurances

I certify that the program is clearly within the institution's CBHE-approved mission. The proposed new program must be consistent with the institutional mission, as well as the principal planning priorities of the public institution, as set forth in the public institution's approved plan or plan update.

I certify that the program will be offered within the proposing institution's main campus or CBHE-approved off-site location.

I certify that the program will not unnecessarily duplicate an existing program of another Missouri institution in accordance with 6 CSR 10-4.010, subsection (9)(C) Submission of Academic Information, Data and New Programs.

I certify that the program will build upon existing programs and faculty expertise.

I certify that the program can be launched with minimal expense and falls within the institution's current operating budget.

I certify that the institution has conducted research on the feasibility of the proposal and it is likely the program will be successful. Institutions' decision to implement a program shall be based upon demand and/or need for the program in terms of meeting present and future needs of the locale, state, and nation based upon societal needs, and/or student needs.

Contact Information

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Program Summary

New Program: Facilities Operations and Management Associate of Applied Science Degree (AAS)

Catalog Program Description

The Associate of Applied Science, Facilities Operations and Management program prepares students for careers in a variety of settings in the facilities operations and management field. Knowledge and skill sets acquired include construction, electrical maintenance, air conditioning, heating, automation controls, and ventilation (HVAC), plumbing, electrical systems, and building and grounds. The purpose is to prepare graduates to have a broad range of relevant technical knowledge and skills to maintain and service a variety of structures including commercial, industrial, and residential facilities.

Students will also be proficient in blue print reading, codes & standards, and project management principles. Students will receive cardiopulmonary resuscitation (CPR), first aid, and Occupational Safety and Health Administration (OSHA) 10-hour training to prepare them for certification in these skills.

Program Mission Statement

Program Goals - The goals of the program are to provide the opportunity for students to develop:

Curriculum Requirements

Total Program Credits		72.0
Core Curriculum		52.0
BUS 211	Management	3.0
CVT 122	Construction Safety	2.0
ELE 120 (same as IEL 150)	Blueprint Reading and Project Development	2.0
ELE 130 (same as IEL 117)	Circuitry Fundamentals with Lab	4.0
FAC 100	Codes and Standards	3.0
FAC 110	Introduction to Facilities	3.0
FAC 120	Building and Grounds	3.0
FAC 130	Building Controls	4.0
FAC 140	Electrical Wiring & Conduit	3.0
FAC 150	Plumbing I	3.0
FAC 160	HVAC-R I	3.0
FAC 210	Boilers	3.0

FAC 220	Plumbing II	3.0
FAC 240	Building Envelope	3.0
FAC 250	HVAC-R II	3.0
FAC 255	Internship	4.0
WLT 128	Basic Welding	3.0
General Education Requirements		19.0
COM 101	English Composition	3.0
COM 111	Oral Communications	3.0
History or Political Science		3.0
HST 105	American History to 1877	3.0
OR		
HST 110	American History from 1877 to Present	3.0
OR		
PSC 101	American Government	3.0
Math		3.0
MAT 115	College Algebra	3.0
OR		
MAT 118	Survey of College Mathematics	3.0
OR		
MAT 119	Elementary Statistics	3.0
Microcomputer Usage		3.0
CPP 101	Introduction to Microcomputer Usage	3.0
OR		
CPP 102	Advanced Microcomputer Usage	3.0
Science		4.0
PHY 100	Introduction to Physics	4.0
OR		
Environmental Science		4.0
PHY 103	Environmental Science	4.0
AND		
PHY 104	Environmental Science Lab	0.0
Graduation Requirement		1.0
COM 125	Job Search Strategies	1.0

Total: 72.0