



- PUBLIC
 INDEPENDENT

NEW PROGRAM PROPOSAL FOR ROUTINE REVIEW

When finished, please save and email to: he.academicprogramactions@dhe.mo.gov

Sponsoring Institution:

Program Title: Building Maintenance and Construction

Degree/Certificate:

If other, please list: Two new related certificates

Options:

Delivery Site: Metropolitan Community College

CIP Classification: 46.0401

Implementation Date: Fall 2018

Is this a new off-site location? Yes No

If yes, is the new location within your institution's current CBHE-approved service region?

**If no, public institutions should consult the comprehensive review process*

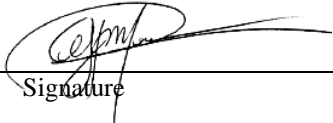
Is this a collaborative program? Yes No

**If yes, please complete the collaborative programs form on last page.*

CERTIFICATIONS

- The program is within the institution's CBHE approved mission. *(public only)*
- The program will be offered within the institution's CBHE approved service region. *(public only)*
- The program builds upon existing programs and faculty expertise
- The program does not unnecessarily duplicate an existing program in the geographically-applicable area.
- The program can be launched with minimal expense and falls within the institution's current operating budget. *(public only)*

AUTHORIZATION

Dr. Carlos Penalozza/Vice Chancellor of Instruction and Chief Academic Officer		3/1/2018
Name/Title of Institutional Officer	Signature	Date

PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

Although all of the following guidelines may not be applicable to the proposed program, please carefully consider the elements in each area and respond as completely as possible in the format below.

Quantification of performance goals should be included wherever possible.

1. Student Preparation

- Any special admissions procedures or student qualifications required for this program which exceed regular university admissions, standards, e.g., ACT score, completion of core curriculum, portfolio, personal interview, etc. Please note if no special preparation will be required.
No special preparation is required
- Characteristics of a specific population to be served, if applicable.
This program is intended to serve as a way for students who are underemployed to achieve a pre-apprenticeship and/or employability skills needed to be fully employed.

2. Faculty Characteristics

- Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.
An associate degree and three years full time industry experience or journey person status equivalent to the completion of a registered apprenticeship program.
- Estimated percentage of credit hours that will be assigned to full time faculty. Please use the term "full time faculty" (and not FTE) in your descriptions here.
FT faculty will be assigned a minimum 80% of their required work load of instructional hours.
- Expectations for professional activities, special student contact, teaching/learning innovation.
Participate in professional development activities to remain current in industry trends and teaching and learning skills.

3. Enrollment Projections

- Student FTE majoring in program by the end of five years.
Approximately 40 new students per year.
- Percent of full time and part time enrollment by the end of five years.
40% FT and 60% PT

STUDENT ENROLLMENT PROJECTIONS

YEAR	1	2	3	4	5
Full Time	20	20	20	25	25
Part Time	20	40	45	50	55
Total	40	60	65	75	80

4. Student and Program Outcomes

- Number of graduates per annum at three and five years after implementation.
Approximately 40 for degrees and certificates

Special skills specific to the program.

OSHA safety standards appropriate to construction. Applied sciences and critical thinking for decisions typical of troubleshooting building systems or construction trades.

- Proportion of students who will achieve licensing, certification, or registration.
60% journey person level; 100% OSHA certification
- Performance on national and/or local assessments, e.g., percent of students scoring above the 50th percentile on normed tests; percent of students achieving minimal cut-scores on criterion-referenced tests. Include expected results on assessments of general education and on exit assessments in a particular discipline as well as the name of any nationally recognized assessments used.
This program will follow the institutional instructional assessment plan, with systematic evaluation of curriculum and program design. Evaluating student outcomes measured by enrollment, persistence, and graduation; as well as advisory group recommendations.
- Placement rates in related fields, in other fields, unemployed.
80% related fields; 15% other fields; 5% unemployed
- Transfer rates, continuous study.
5% transfer to four-year institutions.

5. Program Accreditation

- Institutional plans for accreditation, if applicable, including accrediting agency and timeline. If there are no plans to seek specialized accreditation, please provide rationale.
No accrediting agency.

6. Program Structure

A. Total credits required for graduation: AAS 61-65; Certificate Level I 16 Credits; Certificate Level II 40 Credits

B. Residency requirements, if any:

Complete 25% or more of the required credits at MCC and be enrolled anytime during the academic year of qualification for graduation

C. General education: Total credits: 18-22

Courses (specific courses OR distribution area and credits)

Course Number	Credits	Course Title
ENGL 101	3	Composition and Reading I
COMM 102	3	Fundamentals of Human Communication
ENGL 215 OR		Technical Writing
SPAN 100	3	Occupational Spanish
HIST 120 OR		United States History to 1865
HIST 121 OR		United States History since 1865
POLS 136 OR		Introduction to American National Politics
POLS 137	3	Introduction to State and Local Politics
Choose one of the following	3-5	
MATH 115 OR		Statistics
MATH 119 OR		College Mathematics
MATH 120		College Algebra
Any course numbered 100 or higher from the following disciplines:	3-5	ART, ANTH, COMM, ECON, ENGL, Foreign Language, GEC (except 104 or 110), HIST HUMN, MUSI, PHIL, POLS, PSYC, SICN, SOSC, SOCI, THEA

D. Major requirements: Total credits: 40

Course Number	Credits	Course Title
BLDM 109	4	General Construction Principles and Trade Tools
BLDM 110	3	Electrical Safety and Principles
BLDM 119	4	Wiring Methods: Residential and Light Commercial
BLDM 124	3	Carpentry: Stairs, Flooring and Roofs
BLDM 210	3	Building Mechanical Systems
BLDM 220	3	Building Mechanical Systems
CSIS 115	3	Computer Concepts and Applications
EHSS 112	1	Introduction To Health and Safety for Construction
HVAC 109	4	Electricity for HVAC/R Technicians
HVAC 111	3	Principles of Heating, Ventilation and Air Conditioning
HVAC 120	4	Fundamentals of Refrigeration
INTE 102	2	Communication for Industry
INTE 124	2	Employment Strategies for Technical Careers
Electives:	3-4	CSMG, EHSS, HVAC, INTE
Total	43-44	

E. Free elective credits: N/A
(sum of C, D, and E should equal A)

F. Requirements for thesis, internship or other capstone experience:
 COLL 100 First Year Seminar 1 credit hour (included in total credit hours required)

G. Any unique features such as interdepartmental cooperation:
 N/A

7. Need/Demand

Student demand

Market demand

Societal demand

I hereby certify that the institution has conducted research on the feasibility of the proposal and it is likely the program will be successful.

New Certificate – Building Maintenance & Construction Level 1 Pre-Apprenticeship 46.0401

Course Number	Credits	Course Title
COLL 100	1	First Year Seminar
BLDM 109	4	General Construction Principles and Trade Tools
BLDM 110	3	Electrical Safety and Principles
CSIS 115	3	Computer Concepts and Applications
EHSS 112	1	Introduction to Health and Safety for Construction
INTE 102	2	Communication for Industry
INTE 124	2	Employment Strategies for Technical Careers
Total credit Hours	16	

New Certificate – Building Maintenance & Construction Level 2 46.0401

Course Number	Credits	Course Title
COLL 100	1	First Year Seminar
BLDM 109	4	General Construction Principles and Trade Tools
BLDM 110	3	Electrical Safety and Principles
CSIS 115	3	Computer Concepts and Applications
EHSS 112	1	Introduction to Health and Safety for Construction
INTE 102	2	Communication for Industry
INTE 124	2	Employment Strategies for Technical Careers
BLDM 119	4	Carpentry, Sheetrock, Siding, and Finishes
BLDM 124	3	Wiring for Residential and Light Commercial
BLDM 210	3	Carpentry Stairs, Flooring, and Roofs
BLDM 220	3	Building Mechanical Systems
HVAC 109	4	Electricity for HVAC/R Technicians
HVAC 111	3	Principles of Heating, Ventilation, and Air Conditioning
HVAC 120	4	Fundamentals of Refrigeration
Total Credit Hours	40	