



☒ PUBLIC

☐ INDEPENDENT

## NEW PROGRAM PROPOSAL FOR ROUTINE REVIEW

*When finished, please save and email to: [he.academicprogramactions@dhe.mo.gov](mailto:he.academicprogramactions@dhe.mo.gov)*

**Sponsoring Institution:**

**Program Title:** Process & Controls Engineering Technology

**Degree/Certificate:**

**If other, please list:**

**Options:**

**Delivery Site:** Poplar Bluff, Sikeston, Dexter, Kennett, Malden

**CIP Classification:** 15.0613

**Implementation Date:** 1/1/2018

**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

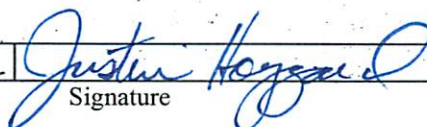
*\*If yes, please complete the collaborative programs form on last page.*

### 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

Name/Title of Institutional Officer

  
Signature

Date

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## PROGRAM CHARACTERISTICS AND PERFORMANCE GOALS

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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 required
- Characteristics of a specific population to be served, if applicable.  
Rural

### 2. Faculty Characteristics

- Any special requirements (degree status, training, etc.) for assignment of teaching for this degree/certificate.  
Degree/Certificates/Experience
- 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.  
75%
- Expectations for professional activities, special student contact, teaching/learning innovation.  
Maintain current within degree field. Student advising

### 3. Enrollment Projections

- Student FTE majoring in program by the end of five years.  
10
- Percent of full time and part time enrollment by the end of five years.  
50% fulltime, 50% part-time

#### STUDENT ENROLLMENT PROJECTIONS

YEAR	1	2	3	4	5
Full Time	2	4	6	8	10
Part Time	2	4	6	8	10
Total	4	8	12	16	20

### 4. Student and Program Outcomes

- Number of graduates per annum at three and five years after implementation.  
6 graduates at three years, 10 graduates at 5 years
- Special skills specific to the program.

Students acquire valuable employable skills within the industrial technology and manufacturing sectors such as Electrical Process Technician.

- Proportion of students who will achieve licensing, certification, or registration.  
N/A
- 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.  
70%
- Placement rates in related fields, in other fields, unemployed.  
50%
- Transfer rates, continuous study.  
Program is not a transferable degree

## 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.  
If program grows, accreditation through The National Institute for Metalworking Skills (NIMS) will be considered.

## 6. Program Structure

- A. Total credits required for graduation: 65-69
- B. Residency requirements, if any:  
15 credits required at College to receive degree
- C. General education: Total credits:  
18-22

### *Courses (specific courses OR distribution area and credits)*

Course Number	Credits	Course Title
ENGL 111	3	College Writing
ENGR106/MATH 153	3-4	Technical Math I or Intermediate Algebra
ENGR 107/MATH 163	3-4	Technical Math II or College Algebra
GOVT 121	3	National and State Government
PHYS 100/PHYS 101	3-5	Survey of Physics or Physical Science
SCOM 110	3	Public Speaking

D. Major requirements: Total credits: 47

Course Number	Credits	Course Title
ELEC 115	3	Applied DC & AC Circuits
ELEC 117	3	Industrial Electrical Controls
ELEC 207	3	Industrial Electronics Applications
ELEC 216	3	Programmable Controller Systems
ELEC 218	2	Electrical Codes & Standards for Manufacturing
ENGR 297	6	Internship
MAFT 119	3	Robotics I
MAFT 215	3	Mechatronics Capstone
MAFT 219	3	Robotics II
MAFT 255	3	Hydraulics & Pneumatics
ENGR 110/MEDR 135	3	Engineering Graphics or Blueprint Reading and Gauging
ENGR 198	3	Workplace Readiness
MAFT 228	3	Quality Assurance Fundamentals
MAFT 229	3	Introduction to Safety and Health Programs
MEDR 246	3	Computer Aided Machining I

E. Free elective credits: 0

*(sum of C, D, and E should equal A)*

F. Requirements for thesis, internship or other capstone experience:

Internship

G. Any unique features such as interdepartmental cooperation:

N/S

## 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.

***On July 1, 2011, the Coordinating Board for Higher Education began provisionally approving all new programs with a subsequent review and consideration for full approval after five years.***

## COLLABORATIVE PROGRAMS

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- **Sponsoring Institution One:**
- **Sponsoring Institution Two:**
- **Other Collaborative Institutions:**
- **Length of Agreement:**
- **Which institution(s) will have degree-granting authority?**
- **Which institution(s) will have the authority for faculty hiring, course assignment, evaluation and reappointment decisions?**
- **What agreements exist to ensure that faculty from all participating institutions will be involved in decisions about the curriculum, admissions standards, exit requirements?**
- **Which institution(s) will be responsible for academic and student-support services, e.g., registration, advising, library, academic assistance, financial aid, etc.?**
- **What agreements exist to ensure that the academic calendars of the participating institutions have been aligned as needed?**

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