

Docket Item:

Community College Approval: Clackamas Community College, Associate of Applied Science in Industrial Maintenance Technology within 47.0303 - Industrial Mechanics and Maintenance Technology/Technician.

Summary:

Clackamas Community College proposes a new Associate of Applied Science in Industrial Maintenance Technology. Higher Education Coordinating Commission (HECC) staff completed a review of the proposed program. After analysis, HECC staff recommends approval of the degree as proposed.

Staff Recommendation:

The HECC recommends the adoption of the following resolution:

RESOLVED, that the Higher Education Coordinating Commission approve the following degree: AAS in Industrial Maintenance Technology.



Clackamas Community College seeks the Oregon Higher Education Coordinating Commission's approval to offer an instructional program leading to an Associate of Applied Science in Industrial Maintenance Technology.

Program Summary

Industrial Maintenance Technology (IMT) is a program that prepares students to succeed as maintenance technicians in industry. IMT graduates perform mechanical and electrical maintenance of manufacturing equipment such as machine tools, automated process equipment and buildings systems to keep production operational. Maintenance technicians study subjects from a wide variety of technical disciplines ranging from welding to industrial electronics to robotics. This is a high-wage, high-demand field that typically attracts talented people who are excellent problem solvers and enjoy challenging work.

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1. *Describe the need for this program by providing clear evidence.*

The demand for industrial machinery mechanics is expected to grow by 29.8% in the Portland Tri-County area by 2030. This occupation is expected to grow at a faster rate than the regional average growth rate for all occupations through 2030.

2. *Does the community college utilize systemic methods for meaningful and ongoing involvement of the appropriate constituencies?*

The need for industrial machinery mechanics has been vetted with employers through advisory committees, department faculty, and students. The position is in high demand in the Portland Tri-County area as well as statewide.

3. *Is the community college program aligned with appropriate education, workforce development, and economic development programs?*

This program leads directly to employment upon successful completion. It is aligned with workforce training dollars and other grant funds to support students. Once approved the college will apply for the program to be included on the Workforce Innovation and Opportunity Act, Eligible Training Provider List.

4. *Does the community college program lead to student achievement of academic and technical knowledge, skills, and related proficiencies?*

Upon successful completion of this program, students should be able to: work safely in an industrial

environment around machinery, power equipment, heat, chemicals and electricity; troubleshoot, install and repair complex electromechanical systems by using knowledge of electrical and mechanical fundamentals, diagnostic instruments, and hand and power tools; use knowledge of manufacturing and welding processes to execute the repair and replacement of machine elements; effectively apply computer technology to the automation and control of manufacturing and building systems; communicate effectively through graphical means including schematics, diagrams, engineering drawing and sketches to determine system functions to effect repairs and improve performance.

5. *Does the community college identify and have the resources to develop, implement, and sustain the program?*

Most of the courses in this program are already developed and are being delivered. The Department is also identifying resources to market the program and has student recruitment/retention resources in place to support access and completion.

Assurances

Clackamas Community College has met or will meet the four institutional assurances required for program application.

1. *Access.* The college and program will affirmatively provide access, accommodations, flexibility, and additional/supplemental services for special populations and protected classes of students.
2. *Continuous Improvement.* The college has assessment, evaluation, feedback, and continuous improvement processes or systems in place. For the proposed program, there will be opportunities for input from and concerning the instructor(s), students, employers, and other partners/stakeholders. Program need and labor market information will be periodically re-evaluated and changes will be requested as needed.
3. *Adverse impact and detrimental duplication.* The college will follow all current laws, rules, and procedures and has made good faith efforts to avoid or resolve adverse *intersegmental* and *intra-segmental* impact and detrimental duplication problems with other relevant programs or institutions.
4. *Program records maintenance and congruence.* The college acknowledges that the records concerning the program title, curriculum, CIP code, credit hours, etc. maintained by the Office are the official records and it is the college's responsibility to keep their records aligned with those of the Office. The college will not make changes to the program without informing and/or receiving approval from the Office.