Monroe Community College

MICRO-CREDENTIAL PROPOSAL FORM

- A micro-credential is a defined set of coursework that should "stack into" an existing degree or certificate, but can stand alone as a valuable career credential.
- All proposed micro-credentials will require academic department, Curriculum Committee, and Provost approval.
- A new micro-credential will be active immediately following Provost approval.
- When developing a micro-credential, please consult with the Curriculum Office for additional information and guidance.

CONTACT PERSON FOR THIS PROPOSAL	MICRO-CREDENTIAL INFORMATION
Faculty lead: William Hunt	**Proposed title:** Construction Basics 1
Department: Engineering Technologies	**Minimum credits required (Minimum = 6; Maximum = 23**): 8
Date submitted: Click or tap to enter a date.	**Courses: (List course code, title, and credits for each. Include any course choices allowed. Specify any minimum grade requirements. Note sequencing and semesters offered where relevant.)** CIT 122 - Construction I: Elements of Building Construction 4 CR CIT 123 - Construction II: Heavy, Highway and Site Construction 4 CR
Identify others who have been involved in the design/development of this credential: Holly Holevinski	

	Non-credit components, if applicable: N/A

CREDENTIAL ALIGNMENT
Explain the purpose of the proposed credential and list the learning outcomes. The Construction Basics 1 Micro-credential consists of two courses which develop introductory knowledge in both elements of building construction and highway and site construction. The first course includes the study of the materials, methods and techniques used in building construction projects. The second course includes the study of the materials, methods and techniques used in site work, highway, utility, and other heavy construction projects. These are all skills that a construction technician needs for the majority of construction industry employers. CIT 122 & 123 Course Learning Outcomes 1. Find and apply the applicable building codes for Commercial and Industrial construction. 2. Define and explain the different methods and materials used in building construction. 3. Outline the construction process for building construction. 4. Select appropriate construction materials from the specifications submitted. 5. Perform a quantity survey for the materials selected, and compile and quantity list. 6. Interpret construction drawings. 7. Research new materials and explain the construction methods. 8. Analyze labor productivity and estimate quantities for construction materials. 9. Outline the construction process for heavy, highway, and site construction 10. Set-up a layout plan from the site drawings provided. 11. Prepare a mass-haul diagram. 12. Select appropriate construction materials from the specifications submitted. 13. Perform a quantity survey for the materials selected and apply costs.

14. Select the appropriate construction equipment required for a given situation and to determine the production rate of that equipment.
15. Prepare bidders' form and participate in a bid opening.

What is the expected student population for this credential?

1. Employees of consortium of local engineering firms
2. Career changers
3. Adults looking to jumpstart their careers
4. Traditional high school graduates
5. Unemployed adults

Identify how the proposed courses fit within at least one current MCC program and/or certificate. List additional program(s)/certificate(s) with which this credential aligns as applicable.

1. The proposed courses are part of the Construction Technology A.A.S degree program.
2. Students could choose to continue on to the AAS degree program and/or 2+2 transfer program.

If these courses are embedded in the program in which a student is already enrolled, what benefit will this additional credential provide above and beyond the program? How would having it help someone advance on the job or in the transfer process?

1. This credential will provide a jump start for someone who wants to enter into the construction field by providing the knowledge and skills required to be effective on the first day of employment.

2. The courses required for this credential are part of the technical instruction within the Construction Technology AAS degree. It will provide a stackable credential if the apprentice does not complete the AAS degree.

3. This course sequence will provide a work-ready credential for students who are unable, for whatever reasons, to complete the requirements for the AAS degree.

4. Students who earn this credential are expected to be hired at an above entry-level starting wage and advance more quickly in the workplace, leading to the potential for a higher lifetime income than someone without it.
Explain how this credential meets local and/or regional market demand. Will this micro-credential be recognized by the industry? What evidence supports its labor market value? Describe how external partners have contributed to development of the credential, if applicable. 1. There is current demand for these credentials from a consortium of local engineering firms. These firms are preparing for the federal infrastructure bill by hiring more employees to become certified inspectors. 2. The Micro-credential has been discussed with four engineering firms, who have stressed the need for more skilled inspectors, to help them meet increased demands.
If applicable, describe how this credential is aligned to professional standards of a relevant professional organization. List any third-party certifications that students may earn by completing the credential. Click or tap here to enter text.
Additional costs above tuition and institutional fees must be identified. (Examples: OER fees, course fees, required supplies or equipment, non-credit component cost.) List only anticipated costs beyond standard institutional tuition and fees. None
Additional comments: None

Curriculum Office Use

Department Chair Approval Date Click or tap to enter a date. Initials Click or tap here to enter text.

Curriculum Committee Approval Date Click or tap to enter a date. Initials Click or tap here to enter text.

*Economic and Workforce Development and Career Technical Education VP Click or tap to enter a date. Initials Click or tap here to enter text.

Provost Approval Date Click or tap to enter a date. Initials Click or tap here to enter text.

*For EDWIS Curriculum Proposals only