



Iowa Advanced Manufacturing Consortium Curriculum Review Rubric

Signature Program: Machine Technology

College: Iowa Valley Community College District

Reviewer Name: Michael White

Reviewer Signature: *Michael White*

Date: 3/29/2016

Review Definitions & Instructions

Exceptional: Review component is a “best practice” and represents a model for replication.

Effective: Review component is complete and effective.

Opportunity to Improve: Review component is not complete and/or could be improved.

N/A: Review component not reflected or addressed in material.

Comments and Recommendations: Remarks should be reflective of the subjects covered in that section. If any review component is marked as an opportunity for improvement, a comment or recommendation must be provided in reference to the rating.

- Program Introduction & Overview - Program Pathway - Curriculum Map	Exceptional	Effective	Opportunity to Improve	N/A	Comments & Recommendations
1. Priority 1: Develop stacked and latticed pathway in signature program providing a clear and logical path to completion		X			Clear logical pathway beginning with a diploma and moving to AAS degree with two exit points to employment.
2. Priority 1, Strategy 1: Program outcomes aligned to relevant industry certifications		X			Program outcomes align well with numerous NIMS certifications.
3. Priority 1, Strategy 1: Instructors certified per industry standards		X			Instructors certified per industry standards and have various certifications including NIMS and specific machine vendor certifications and training.
4. Priority 1, Strategy 1: NCRC incorporated into signature program curriculum	X				NCRC is offered as a pre-test and post-test. Pre-test results help to identify any areas needing improvement.
5. Priority 1, Strategy 2: Noncredit offering aligned to credit programming		X			Noncredit classes have been developed that utilized the same standards and competencies as the credit. Students taking noncredit classes gain credit through Credit for Prior Learning process.
6. Priority 2, Strategy 4: Uofl online BAS incorporated into program pathway		X			AAS graduates are counseled regarding transfer opportunities for BAS at University of Iowa and University of Northern Iowa (both have articulation programs with IVCC).

- Course Information: Syllabi & Instructional Materials	Exceptional	Effective	Opportunity to Improve	N/A	Comments & Recommendations
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1. Priority 1, Strategy 1: Course competencies are aligned to relevant industry certifications	X				Multiple NIMS credentials are built into the curriculum.
2. Priority 1, Strategy 1: Instructional materials are reflect current industry standards		X			Courses align with current industry requirements and standards.
3. Priority 2, Strategy 5: Online and blended delivery options for courses as appropriate		X			Machining core courses are offered face to face with blended delivery through the use of Youtube and Blackboard. General education classes have online options.
4. Priority 2, Strategy 5: Incorporate simulators and state-of-the-art technology into curriculum		X			Simulators do not seem to be used in the program but state of the art CNC equipment is used (2 CNC Lathes, 3 CNC Mills, CNC EDM, CMM and CNC Plasma Cutting Table. May want to add some simulation tools to the program (Virtual Simulation for alternate machines/controls).
5. Priority 2, Strategy 5: Incorporate online manufacturing training options as appropriate to supplement hands-on training			X		Youtube videos and History Channel programming is used in the training but other online manufacturing training options appear to be missing. May want to investigate online training options such as Amatrol, Immersive and Tooling U.

- Statement of Grant Impact	Exceptional	Effective	Opportunity to Improve	N/A	Comments & Recommendations
1. Priority 1, Strategy 3: Evidence of strengthened credit for prior learning options within program		X			Brand new Credit for Prior Learning policy was approved. Faculty and staff review student's competencies, skills and background to help transfer the learning to the appropriate credit course on students transcript. CPL process used to take noncredit courses to credit.

2. Priority 2, Strategy 1: Digital literacy incorporated into curriculum		X			Students in need of computer/digital literacy development are directed to keyboarding and computer applications classes.
3. Priority 2, Strategy 1: Evidence of plan for remediation and contextualized learning		X			All credit students take placement exams for math, reading and writing and are placed into development sections to develop skills if needed. Both credit and noncredit courses offer substantial contextualized learning. Credit students in the AAS program have over 1481 lab contact hours.
4. Priority 3, Strategy 2: Evidence of intensive advising incorporated into program		X			Student success specialist works each semester with students to monitor degree completion requirements. Instructors in the machine tool technology program utilize an intensive advising process to both retain students and help them complete.
5. Priority 3, Strategy 1: Evidence of industry input/standards in program design and curricular components	X				Machining Advisory Committee in place and works with the program to develop curriculum and resources to meet local workforce demands. Several local companies have donated equipment to the program. Partnered with a local company to align a noncredit program with credit program to train unemployed/underemployed workers to fill vacant positions at the company.

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