



Iowa Advanced Manufacturing Consortium Curriculum Review Rubric

Signature Program: Machine Technology

College: Northern Iowa Area Community College

Reviewer Name: Michael White

Reviewer Signature: *Michael J White*

Date: 4/3/2016

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.

<ul style="list-style-type: none"> - 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 two noncredit Machining programs, a credit General Machinist diploma and moving to a Tool and Die Maker AAS degree with multiple 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. Students in the AAS degree are required to complete the NIMS Measurement, Materials and Safety credential.
3. Priority 1, Strategy 1: Instructors certified per industry standards		X			Both instructors are journeyman Tool and Die. One of the two has completed seven NIMS credentials.
4. Priority 1, Strategy 1: NCRC incorporated into signature program curriculum	X				NCRC has been embedded into the curriculum of both the credit and noncredit offerings.
5. Priority 1, Strategy 2: Noncredit offering aligned to credit programming	X				Noncredit courses align with the credit courses in the General Machinist Diploma. Students completing the noncredit programs receive 2 semester hours in the credit program.
6. Priority 2, Strategy 4: Uofl online BAS incorporated into program pathway		X			Partnership coordinator for University of Iowa works on campus and does presentations for students in the Industrial Tech Division who are interested in pursuing an online BAS degree.

<ul style="list-style-type: none"> - 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				Course competencies are well aligned with multiple NIMS credentials. Students in the AAS degree are required to complete the NIMS Measurement, Materials and Safety credential.
2. Priority 1, Strategy 1: Instructional materials are reflect current industry standards		X			Courses align well with current industry requirements and standards.
3. Priority 2, Strategy 5: Online and blended delivery options for courses as appropriate		X			Online content blended into courses through use of GE-Fanuc and Immersive online content.
4. Priority 2, Strategy 5: Incorporate simulators and state-of-the-art technology into curriculum		X			Hass CNC Mill and Lathe simulators incorporated into the program along with GE-Fanuc Introductory and Immersive Dies, Molds and CNC content. Labs utilize state of the art technology such as Haas CNC Office Lathe, Haas CNC Mini Mill, Makino Wire EDM and Haas CNC simulators.
5. Priority 2, Strategy 5: Incorporate online manufacturing training options as appropriate to supplement hands-on training		X			GE-Fanuc Introductory and Immersive Dies, Molds and CNC online content incorporated into the program.

- 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			Credit for Prior Learning policy was strengthened by updating CPL policies, examining new CPL options and process mapping.
2. Priority 2, Strategy 1: Digital literacy incorporated into curriculum		X			Computer Orientation course required for the General Machinist Diploma and the Tool and Die AAS.

3. Priority 2, Strategy 1: Evidence of plan for remediation and contextualized learning		X			<p>Program Specialist meets with each student (mandatory) to determine if any barriers to completion exist and make appropriate referrals if needed.</p> <p>Program Specialist was a form GED instructor and works as a tutor with any students struggling with the support classes of the Tool and Die program.</p> <p>Labs simulate real-world work environment as part of the learning experience. Students wear uniform shirts, clock in/out and go on several field trips to familiarize themselves with manufacturing environments.</p>
4. Priority 3, Strategy 2: Evidence of intensive advising incorporated into program		X			<p>Students have a mandatory initial and final meeting with Program Specialist. Program Specialist also meets with students as needed during training to provide support and monitor progress.</p>
5. Priority 3, Strategy 1: Evidence of industry input/standards in program design and curricular components		X			<p>Advanced Manufacturing Sector Board was created to focus on key local manufacturers. The board receives feedback from the employers to improve the programs.</p> <p>One local manufacturer has partnered with the college on Manufacturing Days in 2014 and 2015 and has set up a \$20,000 manufacturing scholarship.</p>

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