



## Iowa Advanced Manufacturing Consortium Curriculum Review Rubric

**Signature Program:** Manufacturing Production Technician Certification

**College:** Iowa Western Community College (IWCC)

**Reviewer Name:** Allan Robertson

**Reviewer Signature:**

**Date:** 03/2016

### 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			This program only has the following: Manufacturing Production Technician Certificate (MSSC Certification) after completing 4 modules.
2. Priority 1, Strategy 1: Program outcomes aligned to relevant industry certifications		x			Manufacturing Skills Standard Certification MSSC is embedded into production technician program.
3. Priority 1, Strategy 1: Instructors certified per industry standards		x			All instructors are MSSC certified.
4. Priority 1, Strategy 1: NCRC incorporated into signature program curriculum		x			The majority of the students who enter this program are receiving remediation thru the following programs listed: GAP, PACE Career ready 101. All students take the NCRC test.
5. Priority 1, Strategy 2: Noncredit offering aligned to credit programming				x	This program is new and is only offered as a non-credit certificate program at this time.
6. Priority 2, Strategy 4: UofI online BAS incorporated into program pathway				x	The only pathway listed is a MSSC certificate.

- Course Information: Syllabi & Instructional Materials	Exceptional	Effective	Opportunity to Improve	N/A	Comments & Recommendations
1. Priority 1, Strategy 1: Course competencies are aligned to relevant industry certifications		x			Curriculum covers safety, manufacturing, communications, teamwork, customer service, blueprints, basic mechanics and electrical.
2. Priority 1, Strategy 1: Instructional materials are reflect current industry standards		x			This program uses curriculum material from MSSC <a href="http://www.msscusa.org/certified-production-technician-cpt-courses/">http://www.msscusa.org/certified-production-technician-cpt-courses/</a>

<p>3. Priority 2, Strategy 5: Online and blended delivery options for courses as appropriate</p>	<p>x</p>			<p>Course tasks are listed as subject, objectives and skills. An example of this is the following online module</p> <p>UNIT 45 MACHINE OPERATIONS (MSSC-OP5 e-Learning)</p> <p><b>SEGMENT 1 REAMING</b></p> <p>OBJECTIVE 1 Describe the function and operation of reaming</p> <p>OBJECTIVE 2 Describe how to select a drill to prepare a hole for reaming</p> <p>SKILL 1 Select a drill and drill a hole for reaming</p> <p>OBJECTIVE 3 Describe how to ream a hole</p> <p>SKILL 2 Select a reamer and ream a hole</p>
<p>4. Priority 2, Strategy 5: Incorporate simulators and state-of-the-art technology into curriculum</p>		<p>x</p>		<p>The following machining tools were purchased: CNC, band saw, drill press and hand tools</p> <p>A welding simulator was also purchases to provide a basic understanding of welding</p>
<p>5. Priority 2, Strategy 5: Incorporate online manufacturing training options as appropriate to supplement hands-on training</p>		<p>x</p>		<p>All training modules used are either online learning or text book</p> <p>Examples are: Unit 2 working in manufacturing Textbook</p> <p>Unit 9 Production Teams (MSSC-OS1 e-Learning)</p> <p>Unit 23 Precision Measurement Tools (MSSC-OQ5 e-Learning)</p>

- Statement of Grant Impact	Exceptional	Effective	Opportunity to Improve	N/A	Comments & Recommendations
<p>1. Priority 1, Strategy 3: Evidence of strengthened credit for prior learning options within program</p>				<p>x</p>	<p>Credit for prior learning policies have been developed and will be put in place once a credit program is developed.</p>



2. Priority 2, Strategy 1: Digital literacy incorporated into curriculum		x			Many of the lessons from the four modules used are e-learning.
3. Priority 2, Strategy 1: Evidence of plan for remediation and contextualized learning		x			Students are tested using the NCRC to determine their readiness level in mathematics, reading for information and locating information.
4. Priority 3, Strategy 2: Evidence of intensive advising incorporated into program		x			Students receive continued support from the pathway navigator and program coordinator.
5. Priority 3, Strategy 1: Evidence of industry input/standards in program design and curricular components		x			Several industries have worked with this program to provide guidance on future employer needs. A manufacturing sector board has been formed.

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