



## Iowa Advanced Manufacturing Consortium Curriculum Review Rubric

**Signature Program: Welding**

**College: Iowa Valley Community College District (Marshalltown Community College)**

**Reviewer Name: Douglas M. Rupik**

**Reviewer Signature:** 

**Date: 3/23/16**

### **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.



- <b>Program Introduction &amp; Overview</b> - <b>Program Pathway</b> - <b>Curriculum Map</b>	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				Program pathway offers two separate stackable certificates that are transferrable to a welding diploma. Career pathway is latticed with other manufacturing programs.
2. Priority 1, Strategy 1: Program outcomes aligned to relevant industry certifications	X				Facility is an American Welding Society (AWS) Accredited Testing Facility (ATF). Students are offered the opportunity to test for AWS welder certification.
3. Priority 1, Strategy 1: Instructors certified per industry standards	X				One instructor is an AWS Certified Welding Inspector (CWI), Certified Welding Educator (CWE) and Certified Welder. The other instructor is a Certified welder and awaiting results of CWI/CWE exam.
4. Priority 1, Strategy 1: NCRC incorporated into signature program curriculum	X				NCRC is offered to credit students both as a pre- and post- test. All students have achieved bronze, silver, gold, or platinum status by end of program. Non-credit students are encouraged to obtain NCRC certification.
5. Priority 1, Strategy 2: Noncredit offering aligned to credit programming	X				Non-credit courses use the same competencies and standards as the credit courses.
6. Priority 2, Strategy 4: Uofl online BAS incorporated into program pathway	X				Students who complete diploma may transfer to Uofl or University of North Iowa for their AAS or BAS.

- <b>Course Information: Syllabi &amp; Instructional Materials</b>	Exceptional	Effective	Opportunity to Improve	N/A	Comments & Recommendations
1. Priority 1, Strategy 1: Course competencies are aligned to relevant industry certifications	X				Syllabi indicate students will be prepared to take AWS certified welder exam. Course competencies are aligned to AWS D1.1 structural welding code standards. Students are recommended to undergo certified welder testing.
2. Priority 1, Strategy 1: Instructional materials are reflect current industry standards	X				Textbooks and websites used are current with industry. Lab equipment is consistent with current industry standards.



3. Priority 2, Strategy 5: Online and blended delivery options for courses as appropriate	X				Instructional materials provided via online blackboard LMS for classes such as Shop Math and other related instruction.
4. Priority 2, Strategy 5: Incorporate simulators and state-of-the-art technology into curriculum	X				Two virtual reality welding simulators have been purchased and are in use to prepare students for authentic welding.
5. Priority 2, Strategy 5: Incorporate online manufacturing training options as appropriate to supplement hands-on training	X				Materials to supplement the hands-on lab courses are provided via online Blackboard LMS.

- 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				Students who have taken non-credit classes or have AWS welder certification may use college's new policy to convert learned skills into college credits.
2. Priority 2, Strategy 1: Digital literacy incorporated into curriculum		X			Students in need of computer skills or digital literacy may take keyboarding or computer application classes to build these skills.
3. Priority 2, Strategy 1: Evidence of plan for remediation and contextualized learning	X				All credit students take placement exam upon admission. Students may be placed in developmental academic courses. Courses offer contextualized learning via welding simulators, actual lab work, and projects for the community. Students physically perform welds in preparation for certification.
4. Priority 3, Strategy 2: Evidence of intensive advising incorporated into program	X				Grant-funded student success specialist works in conjunction with faculty to advise students on pathway options, required courses, and career opportunities.
5. Priority 3, Strategy 1: Evidence of industry input/standards in program design and curricular components	X				Local and regional industry representatives meet with college personnel to monitor, inform, and validate curriculum offerings. Industry support led to creation of an additional cohort.

This workforce solution is funded by the I-AM Consortium which is 100% financed through a \$12,951,165 grant from the Department of Labor's Employment & Training Administration. The product was created by the grantee and does not necessarily reflect the official position of the U.S. Department of Labor. The Department of Labor makes no guarantees, warranties, or assurances of any kind, express or implied, with respect to such information, including any information on linked sites and including, but not limited to, accuracy of the information or its completeness, timeliness, usefulness, adequacy, continued availability, or ownership

This work is licensed under the Creative Commons Attribution 3.0 Unported License. To view a copy of this license, visit <http://creativecommons.org/licenses/by/3.0/>. 