



Iowa Advanced Manufacturing Consortium Curriculum Review Rubric

Signature Program: PACE – Industrial Maintenance

College: Kirkwood Community College (KCC)

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.



<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				Pathways lead to multiple AAS degrees or employment including KPACE Industrial Maintenance Certificate, Instrumentation AAS Degree, Energy Production & Distribution Technologies AAS Degree.
2. Priority 1, Strategy 1: Program outcomes aligned to relevant industry certifications	x				The career pathway outline can lead to several industry credentials embedded within this program. Examples are: OSHA 10 Hour, 50+ High Voltage Arc Flash, Residential Voltage Arc Flash, Rigging, Lifting & Cribbing, JSEA-Job Safety & Environmental Analysis, Adult First Aid w/ CPR, Forklift 1, 3, 4, 5, 7 and Snap-On Torque.
3. Priority 1, Strategy 1: Instructors certified per industry standards		x			Instructors are qualified by degree, experience and industry certifications including AWS. Kirkwood has been a model for other programs. Many of the instructors teach in both credit and non-credit programs.
4. Priority 1, Strategy 1: NCRC incorporated into signature program curriculum		x			Students are required to take the NCRC test as part of their acceptance into a KPACE bridge program.
5. Priority 1, Strategy 2: Noncredit offering aligned to credit programming		x			An example of a methods used for non-credit to credit are work based learning was a portfolio.
6. Priority 2, Strategy 4: Uofl online BAS incorporated into program pathway		x			Students can complete a pathway to the U of I BAS in Applied Studies. U of I conducts visits each year and provides information to interested students about the opportunities available to them.



- 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			Examples of some of the topics covered are electrical, mechanical maintenance, safety and math.
2. Priority 1, Strategy 1: Instructional materials are reflect current industry standards		x			Examples of text material used are: Mathematics for Electronics by Myers, Delmar's Standard Textbook of Electricity by Herman and modules from Amatrol Learning systems.
3. Priority 2, Strategy 5: Online and blended delivery options for courses as appropriate				x	No examples were given using online learning. My recommendation would be to look at online IMT material from vendors such as: AMTEC, AMATROL, Tooling U, Lab Volt, Lincoln Welding FANUC etc. In many cases this online material can be used to supplement and create a blended learning environment.
4. Priority 2, Strategy 5: Incorporate simulators and state-of-the-art technology into curriculum	x				A welding simulator was purchased to help with training, skill development and cost saving on welding supplies.
5. Priority 2, Strategy 5: Incorporate online manufacturing training options as appropriate to supplement hands-on training				x	My recommendation would be to use welding e-learning lessons from the welding simulator vendor in conjunction with the virtual welders.

- 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			Use of a portfolio for past work experience is used to award credit.
2. Priority 2, Strategy 1: Digital literacy incorporated into curriculum		x			Computer literacy classes are provided thru IowaWorks career center. If students need remediation training, advising is provided on what classes to take.



3. Priority 2, Strategy 1: Evidence of plan for remediation and contextualized learning		x			Students have access to Career Ready 101 and adult basic education. Students complete the NCRC test to determine if additional remediation is needed.
4. Priority 3, Strategy 2: Evidence of intensive advising incorporated into program	x				The model used includes the following examples: recruitment, NCRC testing, pathway advising, and orientation.
5. Priority 3, Strategy 1: Evidence of industry input/standards in program design and curricular components		x			A sector board with participation from many industrial partners was formed. This group hires students and has participated with classroom activities. This board is in the process of expanding.

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