Curriculum Development Form

New Program (Academic Award)

Program Name (Academic Award): Advanced Manufacturing Core

Type of Academic Award: ☑ AA ☑ AAS ☑ AFA ☑ AS ☑ Diploma ☑ Certificate

Current Location: ☑ Faribault ☑ North Mankato

Proposed Location: ☑ Faribault ☑ North Mankato

Contact Person: Jon Morgan

Date of Proposal: May 3, 2016

Proposed Implementation Date: Summer 2016

Proposed Credits: 8

What program is being proposed? An 8-credit certificate that will prepare students for the MSSC Certified Production Technician certificate. All four classes are already approved and integrated in the advanced mfg. programs.

What impact will this new program have? Can be delivered through the credit and non-credit sides of the college and be a pathway into advanced manufacturing programs as a result of credit for prior learning processes.

Describe the rationale for this new program: Can be a feeder to programs for those students who may not typically enroll (incumbent workers). Will help SCC and MnAMP meet the outcomes required for the TAACCCT grant for which we are the lead college. Other colleges are currently gaining FYEs that SCC could have.

As Faculty Developer, by signing this New Program form, the Curriculum Committee is assured of the following (check marks required):

Prior to Preparing Documentation
☐ Initiation — idea was submitted to Department Chair(s) and Academic Dean/Director for discussion and support
☐ Explored existing program offerings to identify potential duplication
☐ Completed Intention Form

MnSCU Notice of Intent (NOI) — Program Navigator
☐ Program Plan brought to Curriculum Committee for information purposes
☐ Articulation agreement included for AA, AS, AFA programs
☐ Vice President of Student and Academic Affairs approval
☐ President approval
☐ MnSCU Program Navigator upload — New Notice of Intent (NOI) informing other MnSCU colleges/universities of the program
☐ MnSCU initiates the intention stage for feedback; 60 days to complete official paperwork after MnSCU approval

Continue the Curriculum Development Process
☒ Completed the WIDS Program Project, which includes outlining scope and sequence of program

Please Note: If courses do not already exist, the shell of each course must be created in WIDS before the WIDS Program Project can be completed.

☐ Identified prerequisites (if any) for admission to the program
☐ Created measurable program student learning outcomes
☐ Proofread documentation for correct content
☐ Proofread documentation for grammatical and typographical errors
☐ Uploaded additional documentation to WIDS (comparison template, etc.)

Faculty Developer Signature

Date: 4/28/16

This request was previously submitted.

Change Per Marta Mohr.
As Primary Department Chair, by signing this New Program form, the Curriculum Committee is assured of the following (check marks required):

☐ Documentation through email and department meetings made available for other faculty and programs to provide feedback

☐ Proofread documentation for correct content and proper structure

☐ Proofread documentation for grammatical and typographical errors

For LAS programs, signature of all LAS Department Chairs included

☐ For technical programs, the change was discussed at Advisory Committee meeting (provide meeting minutes)

☐ I support this program plan    ☐ I do not support this program plan — please provide reason(s):

Primary Department Chair Signature   Date

For all new programs, if Primary Department Chair does not support the new program proposal, faculty developer can elevate the proposal to AASC for resolution.

For AA and AFA Degrees Only — As a LAS Department Chair, by signing this New Program form, the Curriculum Committee is assured of the following (check marks required):

☐ Documentation through email and department meetings made available for other faculty and programs to provide feedback

☐ I support this program plan    ☐ I do not support this program plan — please provide reason(s):

______________________________________________________________

LAS Department Chair Signature   Date

☐ I support this program plan    ☐ I do not support this program plan — please provide reason(s):

______________________________________________________________

LAS Department Chair Signature   Date

☐ I support this program plan    ☐ I do not support this program plan — please provide reason(s):

______________________________________________________________

LAS Department Chair Signature   Date

If all four LAS Department Chairs do not support the new program proposal, faculty developer can elevate the proposal to AASC for resolution.
As Academic Dean/Director, by signing this New Program form, the Curriculum Committee is assured of the following (check marks required):

☑ Identified potential opportunities and impacts of the change on other programs/departments — DARS search
☑ Provided supporting documentation to populate Program Navigator

☑ I support this program plan   □ I do not support this program plan — please provide reason(s):

__________________________  _____________
Academic Dean/Director Signature  Date

If Academic Dean/Director does not support the new program proposal, faculty developer can elevate the proposal to AASC for resolution.

Upload this signed form as a PDF to WIDS Shared Document folder — Curriculum Committee.

Following Curriculum Committee support, this form is completed with final signatures.

__________________________  _____________
Curriculum Committee Chair Signature  Date

__________________________  _____________
Vice President of Student and Academic Affairs Signature  Date

__________________________  _____________
President Signature  Date

The following steps are possible post-approval steps

**New Program**
Upload to MnSCU Program Navigator
- Curriculum Committee Chair electronic approval
- Vice President of Student and Academic Affairs electronic approval
- President electronic approval
- Vice President of Student and Academic Affairs electronic approval (2nd)
- MnSCU reviews for final approval
- MnSCU grants approval

**Student Affairs**
- ISRS; DARS; eCatalog

Scope and Sequence for Perkins Programs of Study
Federal Dept. of Education review
Higher Learning Commissions (HLC) review
South Central College
Program Design

CERT Manufacturing Foundations

Program Information

Instructional Level  Certificate
Career Cluster  Engineering, Manufacturing & Technology

Description
This entry-level certificate prepares students for the Manufacturing Skills Standards Council's Certified Production Technician certificate. It introduces students to manufacturing careers and gives them opportunities to enhance or develop important workplace knowledge and skills.

Program Student Learning Outcomes

1. Identify appropriate safety, maintenance, manufacturing process, and quality procedures.
2. Apply specific safety, maintenance, manufacturing process, and quality procedures in a manufacturing setting.

Program Configurations

Single Semester - Any Start

Credits

Technical Course  8.00

Total Credits  8.00

Semester 1

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<tr>
<th>Course #</th>
<th>Course Title</th>
<th>Credits</th>
<th>Function</th>
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<td>2.00</td>
<td>Technical Course</td>
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<tr>
<td>CMAE 1518</td>
<td>Manufacturing Process and Production</td>
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<tr>
<td>CMAE 1522</td>
<td>Quality Practices</td>
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</tr>
<tr>
<td>CMAE 1526</td>
<td>Maintenance Awareness</td>
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Program Course List
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<th>Credits</th>
<th>Pre/Corequisites</th>
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Manufacturing Foundations Certificate - 8 Credits

Program Description:

This program is designed to meet the entry level needs of students entering into the manufacturing environment from a variety of directions. Students completing this certificate will have a broad background in the manufacturing production enterprise. Strong foundation skills that explore the four key aspects of the manufacturing production are the core of student learning in this certificate. Successful completion of this certificate will prepare the student for entry level employment in the manufacturing sector, possible advancement of position, and/or industry certification through the National Skill Standards Program.

The nationwide National Skills Standards System, based on industry-defined and federally endorsed national standards, offers both entry-level and incumbent workers the opportunity to demonstrate they have acquired the skills increasingly needed in the high growth, technology-intensive jobs of the 21st century. The National Skill Standards System awards certificates to individuals who pass any of its four Production modules: Safety Awareness; Quality Practices; Manufacturing Processes; and Maintenance Awareness. Successful completion of all four certificates earns the client a Certificate Production Technologist certification.

Program Outcomes:

Identify and apply appropriate safety procedures
Analyze and apply specific manufacturing process procedures
Identify and apply specific quality procedures
Identify maintenance processes and procedures
Understand the coordination of industry safety programs

Recommended Course Sequence:

CMAE1514 Safety Awareness
CMAE1518 Manufacturing Processes
CMAE1522 Quality Practices
CMAE1526 Maintenance Awareness