

e-note 6/28/16



Curriculum Development Form New Program (Academic Award)

Program Name (Academic Award): Advanced Manufacturing Core Manufacturing Foundations CIP Code: 1506.13
Type of Academic Award: AA AAS AFA AS Diploma Certificate
Current Location: Faribault North Mankato Proposed Location: Faribault North Mankato
Contact Person: Jon Morgan Proposed Credits: 8
Date of Proposal: May 3, 2016 Proposed Implementation Date: Summer 2016

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 Attach additional material if necessary 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** *no need, because it's a new award based on an existing program (Manufacturing Production Technology) 17 cr. Certificate*
- 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.) *N/A*

[Signature]
Faculty Developer Signature

6/28/16
Date

THIS REQUEST WAS PREVIOUSLY SUBMITTED. CHANGE PER MARTA MOHR. New Program Form — 12/21/14 — Page 1

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

NA For LAS programs, signature of all LAS Department Chairs included

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

TRACCT Grant Stakeholders in favor, Businesses requesting this.

I support this program plan

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

[Handwritten Signature] _____
Primary Department Chair Signature Date *6-22-16*

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):

Baub Embacher
Academic Dean/Director Signature

6-20-16

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.

Salwa Al-Bisher
Curriculum Committee Chair Signature

6/29/16
Date

[Signature]
Vice President of Student and Academic Affairs Signature

6-30-16
Date

[Signature]
President Signature

6/30/16
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 work-place 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

Course #	Course Title	Credits	Function
CMAE 1514	Safety Awareness	2.00	Technical Course
CMAE 1518	Manufacturing Process and Production	2.00	Technical Course
CMAE 1522	Quality Practices	2.00	Technical Course
CMAE 1526	Maintenance Awareness	2.00	Technical Course

Program Course List

Number	Title	Credits	Pre/Corequisites
CMAE 1514	Safety Awareness	2.00	None
CMAE 1518	Manufacturing Process and Production	2.00	None
CMAE 1522	Quality Practices	2.00	None
CMAE 1526	Maintenance Awareness	2.00	None

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from all

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

Bootcamp
Grant Computers

Recommended Course Sequence:

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