CURRICULUM COMMITTEE CHECKLIST

NAME OF PROGRAM: Welding CCOs  Date: 10/23/13

Step 1 Reviewed change at division meeting.  

Step 2 Presented as informational item at Division Chair Meeting(s) and checked if it affects other departments. Like programs must meet with Division Chairs on all affected campuses (North Mankato and Faribault).

Division Chair's signature

Step 3 Instructional Dean reviewed and indicated need for Curriculum Committee approval.

Instructional Dean's signature

Step 4 Advisory Committee approval indicated in meeting minutes if necessary. Minutes provided to Curriculum Committee.

Step 5 Curriculum Committee made recommendations (changes, additional approvals, etc.). If no, skip to Step 7.

Step 6 Committee's recommendations completed. (Skip if not applicable.)

Step 7 Curriculum Committee approved.

Curriculum Committee Chair's signature

Step 8 Minutes and necessary materials provided to VP of Academic Affairs.

Step 9 Vice President of Academic Affairs approved.

Vice President of Academic Affairs' signature  12-26-13

Step 10 New Course Maximum Enrollment to Shared Governance.

Step 11 President's approval for all changes requiring MnSCU approval.

President's signature

YES  NO

WELD 1008, 1011, 1028
1036, 1045, 1055
New Course or Course Change Proposal Form

Date of Proposal: 11-25-13

Author: Brian Knutson

Proposal Type: (*)New Course ✔ Modify Course Delete Course

Contact for the Course: Brian Knutson

Course Designator, Number and Title (i.e.: ACCT 1800, Business Law): WELD 1006 – Blueprint Reading for Welding

Number of Credits: 1

Prerequisites: WELD 1005

Course Description: This course will expand on basic Blueprint Reading by utilizing skills and knowledge about symbols, charts, and measurements to work more closely with blueprints specific to Welding. (Prerequisite: WELD 1005)

Grading Method: Grade ✔ Pass/Fail

Scheduling: Fall ✗ Spring ✔ Summer Alternate Years Variable On Demand

Instructional Type: Lecture ✔ Lab Lecture/Lab Internship Seminar

(* ) Class Maximum: (For New Courses Only) / All Unlimited faculty members of a program or discipline must sign.

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<td>Joe Velke</td>
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Dean's Name: Barb Embacher

Dean's Signature: Barb Embacher

Date: 12/17/13

If there is not enough space provided, please use the back of this form for additional signatures or click on a row with the right button of the mouse, select insert and then select insert rows below to add rows to the table.

Is this Course Proposed as a Liberal Arts Course: Yes ✔ No

If Yes, Which MnTC Area/Areas Will it Fulfill (http://www.mntransfer.org)?

Is This Course a Requirement/Elective for a Specific Program or Programs? Yes ✔ No

If Yes, Which Program(s)? Welding Certificate

Describe What is Changing/Being Added, and the Rationale:

What Impact Will This New Course or Change Have on Other Programs or Areas? None.

- Attach Common Course Outline to this Form.
New Course or Course Change Proposal Form

Date of Proposal: 11-25-13
Author: Brian Knutson
Proposal Type: (*)New Course ☑ Modify Course Delete Course
Contact for the Course: Brian Knutson
Course Designator, Number and Title (i.e.: ACCT 1800, Business Law): WELD 1011 – OSHA 10 Hour and Welding Safety II
Number of Credits: 1
Prerequisites: WELD 1010

Course Description: This course is an expansion of the first part of OSHA 10 Hour & Welding Safety by including all of the Elective components of the curriculum. Topics that are focused on in this course include machine guarding, bloodborne pathogens, safety & health programs, and welding safety. (Prerequisite: WELD 1010)

Grading Method: Grade ☑ Pass/Fail
Scheduling: Fall ☑ Spring Summer Alternate Years Variable On Demand
Instructional Type: Lecture ☑ Lab Lecture/Lab Internship Seminar

(*)Class Maximum: (For New Courses Only) / All Unlimited faculty members of a program or discipline must sign.
Faculty Name: Joe Volk
Faculty Signature: [Signature]
Class Max: 12-18-2013
Date: 12-18-2013

Dean's Name: Barb Embacher
Dean's Signature: [Signature]
Date: 12/18/13

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Is this Course Proposed as a Liberal Arts Course: Yes ☑ No
If Yes, Which MnTC Area/Areas Will it Fulfill (http://www.mntransfer.org)?
Is This Course a Requirement/Elective for a Specific Program or Programs? Yes ☑ No
If Yes, Which Program(s)? Welding Certificate
Describe What is Changing/Being Added, and the Rationale:
What Impact Will This New Course or Change Have on Other Programs or Areas? None.

➢ Attach Common Course Outline to this Form.
New Course or Course Change Proposal Form

Date of Proposal: **11-25-13**

**Author: Brian Knutson**

<table>
<thead>
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Contact for the Course: **Brian Knutson**

Course Designator, Number and Title (i.e.: ACCT 1800, Business Law): **WELD 1026 – Shield Metal Arc Welding II**

Number of Credits: **1**

Prerequisites: **WELD 1025**

Course Description:  This course will expand on information introduced in SMAW I and will provide more practice time with electrodes: types, selection, discussion of power sources. Types of SMAW will be used in various ways, including selection of materials and steps necessary to complete tasks. Duty cycle, cable sizing, arc blow are expanded upon and advantages, limitations, vertical-up and vertical down are explored. Additionally, this course will prepare for AWS D 1.1 Certification.  
(Prerequisites: WELD 1025)

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Scheduling:  
- **Fall**
- **Spring**
- **Summer**
- **Alternate Years**
- **Variable**
- **On Demand**

Instructional Type:  
- **Lecture**
- **Lab**
- **Lecture/Lab**
- **Internship**
- **Seminar**

Class Maximum: (For New Courses Only) / All Unlimited faculty members of a program or discipline must sign.

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Dean's Name: **Barb Embacher**  
Dean's Signature: **Barb Embacher**  
Date: **12-17-13**

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Is this Course Proposed as a Liberal Arts Course:  
- **Yes**  
- **No**

If Yes, Which MnTC Area/Areas Will it Fulfill (http://www.mntctransfer.org)?

Is This Course a Requirement/Elective for a Specific Program or Programs:  
- **Yes**  
- **No**

If Yes, Which Program(s)? **Welding Certificate**

Describe What is Changing/Being Added, and the Rationale:

What Impact Will This New Course or Change Have on Other Programs or Areas: **None.**

- Attach Common Course Outline to this Form.
New Course or Course Change Proposal Form

Date of Proposal: 11-25-13

Author: Brian Knutson

Proposal Type: (*)New Course ☑ Modify Course Delete Course

Contact for the Course: Brian Knutson

Course Designator, Number and Title (i.e.: ACCT 1800, Business Law): WELD 1036 - Gas Metal Arc Welding II

Number of Credits: 1

Prerequisites: WELD 1035

Course Description: This course will reinforce concepts introduced in GMAW I, including circuits, spray arcs, and effects of shielding gases. More practice time will be dedicated to mastery of gas metal arc welding. Additionally, this course will prepare for American Welding Society D 1.1 certification. (Prerequisites: WELD 1035)

Grading Method: Grade ☑ Pass/Fail

Scheduling: Fall ☑ Spring X Summer Alternate Years Variable On Demand

Instructional Type: Lecture Lab ☑ Lecture/Lab Internship Seminar

(*)Class Maximum: (For New Courses Only) / All Unlimited faculty members of a program or discipline must sign.

Faculty Name: Joe Volk

Faculty Signature:

Class Max: 18 Date: 12-18-2013

Dean's Name: Barb Embacher

Dean's Signature:

Date: 12-17-13

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Is this Course Proposed as a Liberal Arts Course: Yes ☑ No

If Yes, Which MnTC Area/Areas Will it Fulfill (http://www.mntransfer.org)?

Is This Course a Requirement/Elective for a Specific Program or Programs? Yes ☑ No

If Yes, Which Program(s)? Welding Certificate

Describe What is Changing/Being Added, and the Rationale:

What Impact Will This New Course or Change Have on Other Programs or Areas? None.

☐ Attach Common Course Outline to this Form.
New Course or Course Change Proposal Form

Date of Proposal: 11-25-13

Author: Brian Knutson

Proposal Type: (*)New Course ☑ Modify Course Delete Course

Contact for the Course: Brian Knutson

Course Designator, Number and Title (i.e.: ACCT 1800, Business Law): WELD 1045 – Introduction to Gas Tungsten Arc Welding

Number of Credits: 3

Prerequisites: None

Course Description: This course is designed to instruct welders in welding safety and the Gas Tungsten Arc Welding process (GTAW-TIG). The student will learn fundamentals of GTAW (TIG) for steel, stainless steel and aluminum. Welding procedures are taught on aluminum, carbon and stainless steels. The training covers edge, corner, lap, and fillet welds in all positions. Welding is limited to regular thin flat material, which does not include thick plate, pipe or other irregular shapes. (Prerequisites: None)

Grading Method: Grade ☑ Pass/Fail

Scheduling: Fall ☒ Spring ☒ Summer ☒ Alternate Years Variable On Demand

Instructional Type: Lecture ☑ Lab ☑ Lecture/Lab Internship Seminar

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Is this Course Proposed as a Liberal Arts Course: Yes ☒ No

If Yes, Which MnTC Area/Areas Will it Fulfill (http://www.mntransfer.org)?

Is This Course a Requirement/Elective for a Specific Program or Programs: Yes ☑ No

If Yes, Which Program(s)? Welding Certificate

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What Impact Will This New Course or Change Have on Other Programs or Areas: None.

➢ Attach Common Course Outline to this Form.
**New Course or Course Change Proposal Form**

**Date of Proposal:** 11-25-13  
**Author:** Brian Knutson

**Proposal Type:** (*)New Course ✔ Modify Course Delete Course

**Contact for the Course:** Brian Knutson

Course Designator, Number and Title (i.e.: ACCT 1800, Business Law): WELD 1055 – Introduction to Oxy-Fuel Welding and Cutting

**Number of Credits:** 3

**Prerequisites:** None

**Course Description:** An introduction to oxy-fuel welding and cutting, safety, setup and maintenance of oxy-fuel welding, and cutting equipment and supplies. The course will demonstrate oxy-fuel welding and cutting safety procedures; identify and classify fuels and filler metals; perform entry-level oxy-fuel welding and cutting operations and select proper equipment and materials. A study of all position welding on ferrous and nonferrous metals using oxy-fuel welding process, including welding and cutting, brazing, and soldering operations. (Prerequisite: None)

**Grading Method:** Grade ✔ Pass/Fail

**Scheduling:** Fall ❌ Spring ✔ Summer Alternate Years Variable On Demand

**Instructional Type:** Lecture ✔ Lab ✔ Lecture/Lab Internship Seminar

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**If Yes, Which Program(s)?** Welding Certificate

**Describe What is Changing/Being Added, and the Rationale:**

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