

Schoolcraft College

Course Cover Sheet



M-CAM Training Area:

CNC/Machining Multi-Skilled Mechatronics Production Operation Welding/Fabrications

Program(s): Basics of Welding Fabrications and Safety for Industry

Course: CESB 6291 - OSHA 30 for Construction

Course Description: The Construction Outreach Training Program is intended to provide a variety of training to workers with some safety responsibility. Training emphasizes hazard identification, avoidance, control and prevention. Instructional time must be a minimum of 30 hours.

Date Created: May 24, 2016

Faculty Developer(s)/Instructional Designers(s): Coley McLean, Tammy Thomson, Sandra Miller

Employer/Industry Partner: Merit Technology and E & E Manufacturing

College Contact: Tammy Thomson

Phone: 734-462-4349

Email: tthomson@schoolcraft.edu

Additional Information/Comments:

As part of our TAACCCT grant and in guidance with our employer partners, Merit Technology and E & E Manufacturing, the OSHA 30 for Construction class was created. The students earn the OSHA 30 credential to assure that students are aware of hazards in the workplace and know their rights to a safe work environment.

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CONTINUING EDUCATION & PROFESSIONAL DEVELOPMENT CLASS PROPOSAL FORM

By submitting this completed form, you agree that in order to maintain an ethical and impartial learning environment, you will not promote any specific product, service, or source in the classroom, nor solicit contact information from the students.

Proposal Prepared By:	
Biography: Please provide information on your background as it relates to the class you are proposing. Please also provide a résumé.	
Suggested Class Title:	
Prerequisite/Skills Required:	
Total Class Hours:	
Maximum Enrollment:	
Type of Supplies:	
Supply Fee: \$	
Class Highlights (We will use this to create a class description. If there is copy that should <i>not</i> be changed, please indicate.)	
Type of Classroom & Equipment Required	
Textbook(s):	Required <input type="checkbox"/> Optional <input type="checkbox"/> Handout Material <input type="checkbox"/>
Book Title, Author, Publisher	
Comments:	

TARGET AUDIENCE: This class is designed for whom?

COMPETITION: Where else is this class or a similar class being offered?

MARKETING SUGGESTIONS: Professional associations, specific publications etc.

COMPETENCIES: (These competencies must be related to class outline.)

Use numbers to list objectives & periods at the end of the objectives.

Example: *1. Demonstrate the basic functions of a computer.*

A successful student should be able to do the following at the end of this class:

LEARNING ACTIVITIES:

Use numbers to list activities & periods at the end of the activities. Example: *1. Lecture.*

The class will have the following distinct activities:

METHODS OF EVALUATION:

Use numbers to list evaluation methods & periods at the end of evaluation methods.

Example: *1. Class assignments.*

In addition to attendance and participation the following criteria may be used:

continued on next page

CLASS OUTLINE (Please indicate projected time devoted to each content area.)

Capitalize the first word of each division. Use Roman numerals with periods, then capital letters with periods, numbers with periods, and finally lowercase letters with periods if necessary. Please use lowercase hour abbreviation and decimal time notation.



Subject Matter Expert (SME) Course Review Summary

College: Schoolcraft College

M-CAM Training Area: CNC/Machining Multi-Skilled/Mechatronics Production Operation Welding/Fabrication

Degree Program Name: Basics of Welding Fabrications and Safety for Industry

Title of Course: CESB 6291 OSHA 30 for Construction

Subject Matter Expert (SME) Reviewer Information

Name: William Andrew McGibbon

Title: Journeyman Pipefitter

Phone: 734-368-6315

Email: pipefittinpro@yahoo.com

Organization/Affiliation:

Attach Resume or provide credentials (showing years of experience and work experience that is relevant to course content):

See attached Resume:

Requirements of a Journeyman pipe fitter: Follow OSHA standards/Regulations. Participate in OSHA Inspections.

Synopsis of Findings:

The 12 hr. electives were geared toward toward entry level welders seeking employment in Production & Construction.

Reviewers Signature

William McGibbon

Date:

1-31-17

**Michigan Coalition for Advanced Manufacturing
Subject Matter Expert Course Review**

1. Course Overview and Objectives	Exceptional	Satisfactory	Ineffective
The goals and purpose of the course is clearly stated.	✓		
Prerequisites and/or any required competencies are clearly stated.	✓		
Learning objectives are specific and well-defined.	✓		
Learning objectives describe outcomes that are measurable.	✓		
Outcomes align to occupational focus (industry skills and standards).	✓		
Comments or recommendations: <i>OSHA REQUIRED TOPICS / INDUSTRY STANDARDS USED</i>			
2. Material and Resources	Exceptional	Satisfactory	Ineffective
The instructional materials contribute to the achievement of the course learning objectives.	✓		
The materials and resources meet/reflect current industry practices and standards.	✓		
The instructional materials provide options for a variety of learning styles.	✓		
Resources and materials are cited appropriately. If applicable, license information is provided.	✓		
Comments or recommendations: <i>OSHA E-LEARNING / GROUP ACTIVITIES / LAB</i>			
3. Learning Activities	Exceptional	Satisfactory	Ineffective
Provide opportunities for interaction and active learning.	✓		
Help understand fundamental concepts, and build skills useful outside of the learning object.	✓		
Activities are linked to current industry practices and standards.	✓		
Comments or recommendations: <i>ASSESSMENTS REFLECT CREDENTIALING</i>			

**Michigan Coalition for Advanced Manufacturing
Subject Matter Expert Course Review**

4. Assessment Tools/Criteria for Evaluation	Exceptional	Satisfactory	Ineffective
The course evaluation criteria/course grading policy is stated clearly on syllabus.	✓		
Measure stated learning objectives and link to industry standards.	✓		
Align with course activities and resources.	✓		
Include specific criteria for evaluation of student work and participation.	✓		
Comments and recommendations: <p align="center">Credits Issued through Assessments</p>			
5. Equipment/Technology	Exceptional	Satisfactory	Ineffective
Meets industry standards and needs.	✓		
Supports the course learning objectives.	✓		
Provides students with easy access to the technologies required in the course/module.	✓		
Comments and recommendations: <p align="center">USE of BLACK BOARD for Reference / Assessments</p>			

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William Andrew McGibbon (Andy)

11312 Shadow Woods Lane Whitmore Lake, MI 48189

734-368-6315

pipefittinpro@yahoo.com

SUMMARY OF QUALIFICATIONS

- AWS QC 1 for 15 years
- UA Certified welder for 15 years
- State of Michigan Journeyman licensed plumber for 9 years

PROFESSIONAL EXPERIENCE

Ua Local 190

Journeyman Pipefitter

Responsible for assembling and installing pipe systems, pipe supports, and hydraulic and pneumatic equipment. Installs pipe for steam, hot water, heating, cooling, lubricating, and industrial production and processing systems.

John E. Green

Welding Inspector QA/QC

Verified weld mapping and tracking, coordinated NDE inspections, Performed weld inspections, field verified construction packages, witnessed hydro testing, performed and coordinated reinstatement inspection walk downs with third party QA and Marathon Operations personnel for the 2012 West plant turnaround.

W.J. O'Neil

Welding inspector QA/QC

Verified weld mapping and tracking, verified NDE requirements were completed, completed QVD's for grouting, rotating and static equipment, witnessed hydro tests, walked over 1,000 re-instatement packages and performed visual weld inspections for the new 2 drum coker at the Marathon Greenfield K141 site.

Washtenaw Community College

Instructor

Part time welding and fabrication instructor, lead students in many different classes in all aspects of the welding field, developed course curriculum for plasma shape cutting class, taught all welding classes GMAW, GTAW, SMAW, and fabrication classes. Instruct students in operation of Shears, saws, hand tools, punches, roll formers, and benders.

Norfolk Southern Railroad

Welding Inspector Specialist QC

Maintained welding records and certifications for 20 freight car repairmen, instructed new apprentices in proper welding techniques, witnessed weld tests, performed guided bend tests for qualification. Welded and repaired rail freight cars and locomotives.

VAR Controls

Welding shop supervisor QC

Directed day to day operations of a small welding shop, designed and built jigs to increase weld production, verified quality of finished products, designed and built prototype units for specialized customers.

United States Navy

Aviation Electronics Technician

Performed trouble shooting and repair on communications, navigation, weapons, and secure datalink systems on the SH60-B platform. Westpack deployment for operations in support of the Gulf War. Command advanced in rank for outstanding performance of duties. Led the line division at HSL-37 to first ever commendation for excellence.

EDUCATION

Journeyman pipefitter – Local 190 training center Ann Arbor, MI

Welding inspector specialist – Norfolk Southern Welding School Altoona, PA

Freight car mechanic – Norfolk Southern Training Center McDonough, GA

Avionics technician – United States Navy Electronics Training Command Millington, TN

Certified welder – Washtenaw Community College Ann Arbor, MI