Non-Credit Course Syllabus

TRINITY VALLEY COMMUNITY COLLEGE

CONTINUING AND WORKFORCE EDUCATION

As the instructor of a non-credit course --complete this template as a syllabus for the course you will teach. Or, you can provide the syllabus in another format that contains all of these required items. ATTACH IT TO THIS FORM AND SIGN THIS FORM.

This syllabus is to be distributed to the students on the first day of the course.

Course Name: Introduction to Welding Fundamentals
Course Rubric and #: WLDG 8021
Class Section #19641
If LLA Class, Piggybacked on to: WLDG 1421.8477

Start Date of Course: 07/07/2016 **Course End Date:** 08/15/2016

1. **Name of Instructor** Steve Stegall

2. Campus (or other location of training) Emory ISD

3. Course Meeting dates and times:

    1. MTWThF 7:30 am to 12:00 pm

    2. Time/date for other instructional activities: (Example(s) : field trip or Certification/end of course exam – if different from regular schedule) N/A

    3. Topics and number of hours of self study involved in the course. Note this is not "homework", this is actual instruction provided by "distance learning" type activities such as in "hybrid" courses)
        a. Topic n/a Time allocated to complete n/a hours
        b. Topic n/a Time allocated to complete n/a hours
        c. Topic n/a Time allocated to complete n/a hours

4. Is this a WECM funded course? YES
   Note: if this is a WECM funded course, all of the outcomes listed in WECM must be taught. Additional outcomes are permitted and encouraged.

5. **General course description**:

Introduction to Welding Fundamentals will introduce the fundamentals of equipment used in oxyacetylene and arc welding, including welding and cutting safety, basic oxyacetylene welding and cutting, basic arc welding processes and basic metallurgy.

6. **List the course outcomes**:

Students will:

1. Demonstrate safety procedures associated with oxy-fuel and arc process; perform basic welds using oxy-fuel and arc welding equipment; and identify ferrous and nonferrous metals.

7. **Resource Materials:**

1. Textbook: Welding Technology Fundamentals fourth edition by Bowditch, Bowditch & Bowditch, The Goodheart-Wilcox Company, Inc. Tinley Park, Illinois
2. Notebook and writing implements;
3. Tape measure (push/pull type 12' minimum 1/16 divisions);
4. Welding hood with at least a #9 lens with protective covers;
5. Cutting goggles or safety glasses (lens shade of #4 or #5)
6. Welding gloves;
7. Welding cap;
8. Pliers – used for handling hot metal;
9. Cutting tip cleaner;
10. Leather shoes or boots (no tennis shoes of any kind)

8. **Course Grades:*** (Non-credit grades will be provided by one of these methods- please check the Appropriate method):

    1. ___ Grade of "pass or fail" indicated with a P or F on the grade sheet. Generally this is the method used participation in the course is the primary objective.

    2. __X__Grade of A, B, C, D, or F. Generally this is the method used when student performance and attendance are necessary for the attaining the course outcomes:

        a. A = 90% - 100% success
        b. B = 80% - 89% success
        c. C = 70% - 79% success
        d. D = 60% to 69% success
        e. F = below 60% successful

    3. ___Numerical grades. (These are required by ISDs for dual credit (non-credit) grades) Instructor lists the student's course average as the grade.

    4. A grade of "W" will be given to students who officially withdraw from the course by contacting the Continuing and Workforce Education Dept. Unless there is an official withdrawal request signed and dated, the student will receive an "F".

    5. ___ Other – Explain:_____

Grades will be determined by the following:

Lecture 30%
- Written assignments/daily work
- Quizzes & Test
- Final Exam
- Attendance & Participation

Shop/Lab 70%
- Shop/Lab assignments
- Practical
- Attendance & Participation

Each student will begin the class with a 100 in attendance & participation. The following will be the point deduction for being absent: 0-3 absences, 0 deduction; After a student accumulates 3 absences, the following method will be used to calculate an attendance grade: Number of class periods minus total absences divided by total

class periods. Example: 30 class periods minus 5 absences = 25 divided by 30 = 0.83, this indicates an 83% attendance rate which equates to an attendance grade of 83.

*All grades are transcripted on a permanent non-credit transcript available to the student at any time.

9. **Course Requirements**

Demonstrate the ability to correctly and safely set up and use oxyacetylene equipment for welding and cutting. Perform oxyacetylene welding in the flat position with various size welding tips, electrodes on various thicknesses of metal. Perform oxyacetylene cutting on various thickness of metal making a straight line cut, circle cut, curved cut and metal washing with a washing tip. Demonstrate the ability to correctly and safely set up SMAW and GMAW/FCAW equipment for welding. Perform various welds using various electrodes (6013, 6011, 6010, 7018, ER70S-6) in various sizes (3/32, 1/8, 5/32 and .035) on various thicknesses of metal. Identify various types and sizes of metals based upon physical, chemical and mechanical properties.

10. Course and Classroom Management (Check those that are appropriate):

- **a.** **__x__**Arrive on time and stay for each entire session
- **b.** __x__Class participation
- **c.** __x__Use of electronic devices –cell phones not allowed in classroom or shop area
- **d.** __x__No guests in class (children especially)
- **e.** __x__Bring needed resources (textbooks, presentation materials, etc.)
- **f.** __x__Instructor reserves the right to ask any student to leave the instructional area for unacceptable behavior of any kind. Law enforcement will be called if needed.
- **g.** __x__Trainees (students) are expected to meet the TVCC standards of conduct.
- **h.** ____Other:_____
- **i.** ____Other:_____
- **j.** ____Other:_____

11. **Other Information: (**Examples: Course is team taught; list other presenters; course is for Continuing Education Units for a specific occupation; course is industry training for a specific group or company, etc.

_____ _____

Instructor Signature Date

_____ _____

Coordinator Signature Date