

**PROGRAM ASSESSMENT PLANNING FORM**

**Program to be assessed:**

Title: WAF Advanced certification (CVWLDA) *Welding Mechanics*  
 Division: VT Department: WAF Code: 14600

Type of Award:  A.A.  A.S.  A.A.S.  
 Cert.  Adv. Cert.  Post-Assoc. Cert.  Cert. of Completion

**Assessment plan:**

Learning outcomes to be assessed	Assessment tool	When assessment will take place	Describe population to be assessed	Number of students to be assessed
1. Perform basic incremental programming.	Lab checklist. Practical final exam	Fall 2008	Students who completed WAF 229 at Washtenaw Community College.	All students.
2. Perform structural welds using SMAW and GTAW processes.	Lab checklist of A.W.S. D1.1 and B2.1 structural welding code. Practical final exam.	Fall 2008	Students who graduated with a CVWLDA during 2007-2008 academic year.	All students.
3. Identify different steel classifications using microstructure analysis.	Final exam	Fall 2008	Graduates who completed WAF 210 at Washtenaw Community College	All students

**Scoring and analysis of assessment:**

1. Indicate how the above assessment(s) will be scored and evaluated (e.g. departmentally developed rubric, external evaluation, other). Attach the rubric/scoring guide.  
 Final exam is scored against answer sheet.
2. Indicate the standard of success to be used for this assessment.  
 90% of students will score an average of 75% and above on each outcome.
3. Indicate who will score and analyze the data (data must be blind-scored).  
 Instructors within the department will blind-score the data.
4. Explain the process for using assessment data to improve the program.  
 Assessment data will be used to make changes if appropriate in both objectives and or class demonstrations.

**Submitted by:**

Name: Coley McLean  Date: 6-3-08  
 Print/Signature

PROGRAM ASSESSMENT PLANNING FORM

Dept. Chair: William H Figg Date: 6-3-08  
Print/Signature  
Dean: [Signature] Date: 6/3/08  
Print/Signature

*Please return completed form to the Office of Curriculum & Assessment, SC 247.*

# WCC Welding & Fabrication Grading Standard

Student will be graded on the following items: Welds turned in (objective sheet completion), Final exam written, Final exam practical, General Progress (student's attendance in registered class displaying participation) and Safety (following departmental rules, policies and directions). These 5 segments will be graded by your instructor, which is shown below. If a student fails any segment they will fail the class.

**Objectives:** Your primary instructor or designee must sign all objectives.

All objectives completed and signed	A	100pts
1 uncompleted	B	75pts
2 uncompleted	C	50pts
3 uncompleted	D	25pts
4 uncompleted	F	Fails course
Total points for this segment		

**Final Written:** Score earned on the written exam will show as the points earned below.

100% to 90%	A	100pts
89% to 80%	B	75pts
79% to 70%	C	50pts
69% to 60%	D	25pts
59% and below or not completed	F	Fails course
Total points for this segment		

**Final Welds:** All welds must be completed and are evaluated according to the AWS D1.1 guidelines and requirements code.

Excellent	A	100pts
Good	B	75pts
Average	C	50pts
Poor	D	25pts
Unacceptable or not completed	F	Fails course
Total points for this segment		

**General Progress:** Present at class and participated in class and daily shop operations and Participation\*\*:

Missed 1 class	A	100pts
Missed 2 classes	B	75pts
Missed 3 classes	C	50pts
Missed 4 classes	D	25pts
Missed 5 classes	F	Fails course
Total points for this segment		

**Safety:** Students must abide by all the rules, policies and departmental directions.

Followed shop rules, policies and directions	A	100pts
Did not follow shop rules, policies and directions	F	Fails course
Total points from this segment		

\*\* Excusable absences will be restricted to student hospitalization, death in family and written doctor's excuse.

## Course Grading Scale

500 pts -- 450 pts	A
425 pts -- 375 pts	B
350 pts	C
325 pts -- 300 pts	D
275 pts -- and below	F

**(Holistic Analysis)**  
**Scoring Rubric Template for Welding Course Objectives**

<b>Score</b>	<b>Criteria</b>
Signature with +	Consistently meets all of AWS D1.1 visual weld criteria <ul style="list-style-type: none"><li>* Reinforcement does not exceed 1/8" or recess below the level of the base material</li><li>* Undercut does not exceed a cumulative 1/8" over the length of the weldment</li><li>* Weld deposit is consistent in appearance</li><li>* Fit-up of plates are uniform and properly positioned for welding to be completed</li><li>* There is no visible porosity in the weldment</li></ul>
Signature with -	Consistently meets most (80%) of AWS D1.1 visual weld criteria <ul style="list-style-type: none"><li>* Reinforcement meets AWS criteria over at least 80% of the weldment</li><li>* Undercut meets AWS criteria over at least 80% of the weldment</li><li>* Weld deposit is consistent in appearance over 80% of the weldment</li><li>* Fit-up of plates are uniform and properly positioned for welding to be completed</li><li>* There is no visible porosity over at least 80% of the weldment</li></ul>
No Signature	Meets less than 80% of the Signature + criteria

**(Holistic Analysis)**  
**Spring Rubric Template for Welding Final Exam Welds**

Score	Criteria
A	Consistently meets all of AWS D1.1 visual weld criteria <ul style="list-style-type: none"> <li>* Reinforcement does not exceed 1/8" or recess below the level of the base material</li> <li>* Undercut does not exceed a cumulative 1/8" over the length of the weldment</li> <li>* Weld deposit is consistent in appearance</li> <li>* Fit-up of plates are uniform and properly positioned for welding to be completed</li> <li>* There is no visible porosity in the weldment</li> </ul>
B	Consistently meets most (at least 80%) of AWS D1.1 visual weld criteria <ul style="list-style-type: none"> <li>* Reinforcement meets AWS criteria over at least 80% of the weldment</li> <li>* Undercut meets AWS criteria over at least 80% of the weldment</li> <li>* Weld deposit is consistent in appearance over 80% of the weldment</li> <li>* Fit-up of plates are uniform and properly positioned for welding to be completed</li> <li>* There is no visible porosity over at least 80% of the weldment</li> </ul>
C	Consistently meets (at least 70%) of AWS D1.1 visual weld criteria <ul style="list-style-type: none"> <li>* Reinforcement meets AWS criteria over at least 80% of the weldment</li> <li>* Undercut meets AWS criteria over at least 80% of the weldment</li> <li>* Weld deposit is consistent in appearance over 80% of the weldment</li> <li>* Fit-up of plates are uniform and properly positioned for welding to be completed</li> <li>* There is no visible porosity over at least 80% of the weldment</li> </ul>
D	Consistently meets (at least 60%) of AWS D1.1 visual weld criteria <ul style="list-style-type: none"> <li>* Reinforcement meets AWS criteria over at least 80% of the weldment</li> <li>* Undercut meets AWS criteria over at least 80% of the weldment</li> <li>* Weld deposit is consistent in appearance over 80% of the weldment</li> <li>* Fit-up of plates are uniform and properly positioned for welding to be completed</li> <li>* There is no visible porosity over at least 80% of the weldment</li> </ul>
F	Consistently meets (less than 60%) of AWS D1.1 visual weld criteria