Assessment: Course Four Column

Courses (CTE) - Welding

WELD 150:Metallurgy Fund for Weld

Course Outcomes	*Assessment Measures*	*Results*	*Actions*
Hardness testing method works - Discuss how each hardness testing method works. (1), (2), (3) **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** (1) Written Examination (2) Practical Evaluation – Students will be asked to show competence by kinesthetic demonstration. (3) Verbal – Students will demonstrate competence by presenting oral demonstrations in groups and individually. **Criterion:** 100%	**Reporting Period:** 2018-2019 **Criterion Met:** Yes 100 PERCENT OF THE CLASS MET OR EXCEEDED THE CRITERION SET FORTH. Results Analysis: EACH STUDENT PICKED A DIFFERENT TYPE OF MATERIAL IN THE CLASSROOM OR LAB AND CHECKED THE HARDENSS VALUE UNDER THE Rc TESTER IN THE CLASSROOM AND HAD TO TELL ME HOW MUCH CARBON CONTENT WAS IN THE STEEL AS WELL AS PRE HEAT TEMP BEFORE YOU CAN ACUALLY WELD IT. (09/09/2019)	**Action:** NONE CONTINUE WITH THIS IT WORKED OUT VERY WELL. (09/09/2019)
Calculate simple tensile, compressive, torsional, and flexural stresses - Calculate simple tensile, compressive, torsional, and flexural stresses. **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** (1) Written Examination (2) Practical Evaluation – Students will be asked to show competence by kinesthetic demonstration. (3) Verbal – Students will demonstrate competence by presenting oral demonstrations in groups and individually. **Criterion:** 100%	**Reporting Period:** 2018-2019 **Criterion Met:** Yes 100 PERCENT OF THE CLASS MET OR EXCEEDED THE CRITERION SET FORTH. Results Analysis: AS A GOUP WE WENT OUT INTO THE WELDING LAB WHERE WE WERE ABLE TO TAKE AN ACTUAL SAMPLE OF METAL AND PREFORM A TENSIAL TEST. EACH STUDENT WAS ASKED TO FIND DIFFERENT VALUES OF THIS MATERIAL SUCH AS 1. TENILE STRENGHT 2. PERCENT ELONGATION 3. PERCENT REDUCTION OF AREA 4. YIELD STRENGHT	**Action:** WOULD LIKE TO BUY AN EXTENIOMITOR TO HOOK UP TO TENSION TESTER. (09/09/2019)

Course Outcomes	Assessment Measures	Results	Actions
		5. MODULES OF ELASTISITY 6. STESS/STRAIN (09/09/2019)	
Compare different types of structures under a microscope - Compare different types of structures under a microscope. **Course Outcome Status:** Active **Next Assessment:** 2023-2024	**Exam -** (1) Written Examination (2) Practical Evaluation – Students will be asked to show competence by kinesthetic demonstration. (3) Verbal – Students will demonstrate competence by presenting oral demonstrations in groups and individually. **Criterion:** 100%	**Reporting Period:** 2018-2019 **Criterion Met:** No We were unable to perform this lab. Results Analysis: verbal and lecture on this subject. Watch videos. No practical (09/09/2019)	**Action:** Buy 10 microscopes for classroom or just one that will hook up to SMART board and micro specimens that we can evaluate for a lab. (09/09/2019)