GTAW Welding Process

Department/Program: Business & Technology – Welding
Project Dates: Spring 2016-Ongoing Project Leaders: Roger Wolfe

Problem

Students will be able to interpret principles and demonstrate mastery of the set up and operation of the GTAW welding process in all positions.

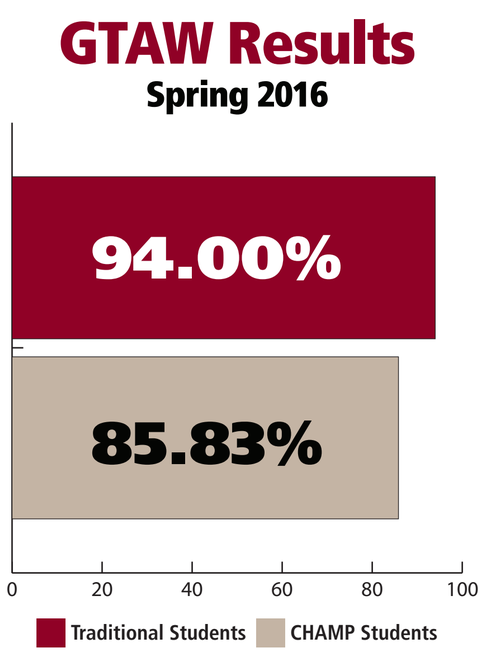
Plan

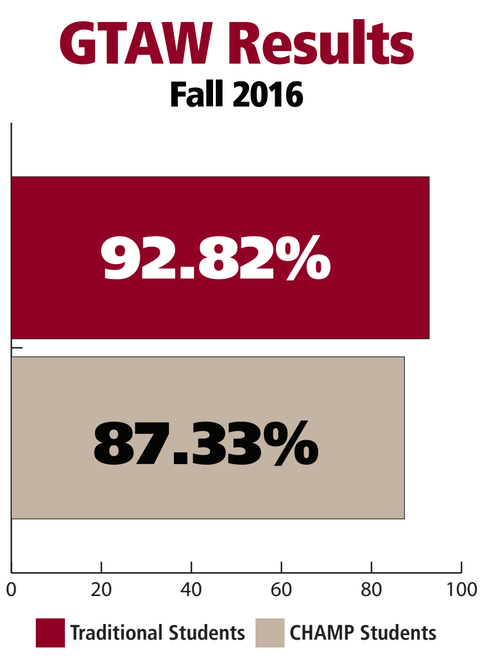
Due to the creation and development of the Fast track CHAMP grant program we will be assessing the student's performance with that of the traditional Welding AAS degree seeking students who have completed the same courses and competencies. The SLO being assessed is SLO #4: Students will be able to interpret principles and demonstrate mastery of the set up and operation of the GTAW welding process in all positions.

Assessment Activity

This will be achieved by holding a Skills USA style performance assessment that will assess the students mastery of the competencies for all five of our SLO's/welding processes and procedures.

Results and Data





Since we greatly outperformed our performance target which was 90% of students will receive 70% or better for this SLO we will be assessing weld discontinuities in addition to overall weld score in order to maximize students application of this SLO while limiting discontinuities that can become weld defects if and when they exceed 1/8 inch allowable tolerance.

Closing the Loop & Next Steps

Due to the previous semesters findings we began the process of identifying in the Fall 2016 semester all discontinuities for SLO's #2, #3, #4, and #5 in our best attempt to better assist instructional techniques/methods. Our goal for the upcoming assessment cycle is to reduce by 10% weld size discontinuities present in the students application of the GTAW process. This can be assessed in all GTAW courses which include WEL 124, 125, 141, 142, 143 and 144. We will be assessing discontinuities moving forward as well as overall process scores.