

# Welding Technology PLOs 2017-2018



## Acad Program - Welding Technology (TD)

Program Learning Outcomes	Assessment Methods	Assessment Results	Action Taken (Use of Results)
<p><b>Occupational Orientation &amp; Safety -</b> Upon successful completion of this course, the student will be able to: Identify and apply basic safety skills in Hand tools, Power tools, general safety procedures, and welding practices at all times.</p> <p><b>Outcome Status:</b> Active/Ongoing <b>Assessment Year:</b> 2016 - 2017, 2017 - 2018 <b>Start Date:</b> 07/01/2016</p>	<p><b>Demonstration -</b> NCCER Performance Profile <b>Criterion:</b> 60% of the students in WELD 1110 successfully passed the NCCER Performance Profile</p>	<p><b>Reporting Period:</b> 2017 – 2018 EoY <b>Result Type:</b> Criterion Met 31/35 (88%) of the students in WELD 1110 successfully passed the NCCER Performance Profile (07/23/2018) <b>Analysis:</b> after reviewing of the result we have determined that the students receiving the necessary knowledge and skills need to complete WELD 1110.</p>	<p><b>Action Taken (Use of Results):</b> 88% of all students taking the WELD 1110 earned passing grades which exceed the criterion of 60%, after review it was determined that the goal would be increased to 70% passing for 2018-19. (07/23/2018) <b>Follow-Up:</b> Non at this time (12/14/2018)</p>
<p><b>Fillet Weld -</b> Students will be able to preform Perform a 2F, 3F, and 4F position fillet weld using 3/32-7018 and 1/8-6010+electrodes. <b>Outcome Status:</b> Active/Ongoing <b>Assessment Year:</b> 2016 - 2017, 2017 - 2018 <b>Start Date:</b> 07/01/2016</p>	<p><b>Demonstration -</b> A performance test will be given in the 2F, 3F, and 4F positions. Using a 3/32-7018 and 1/8-6010+electodes <b>Criterion:</b> 60% of the students in WELD 1411 successfully passed the performance test</p>	<p><b>Reporting Period:</b> 2017 - 2018 EoY <b>Result Type:</b> Criterion Met 24/40 (60%) of the students in WELD 1411 successfully passed the performance test (07/24/2018) <b>Analysis:</b> After a review of the Data it was determined that the Criterion was met and no changes may be made at this time.</p>	<p><b>Action Taken (Use of Results):</b> Students met this outcome. But it is determined that at this time no changes are necessary at this time. This criterion will be reviewed in mid-year to determine if the criterion needs to be changed at the end of the fall. (12/15/2018)</p>
<p><b>SMAW -</b> Students will be able to preform a shielded metal arc welding 6G uphill pipe weld using 3/32-7018 and 1/8-6010+electrodes. <b>Outcome Status:</b> Active/Ongoing <b>Assessment Year:</b> 2016 - 2017, 2017 -</p>	<p><b>Demonstration -</b> A performance test will be given on a shielded metal arc welding 6G uphill pipe weld. Using a 3/32-7018 and 1/8-6010+electodes. <b>Criterion:</b> 60% of the students in WELD 1517 will successfully passed</p>	<p><b>Reporting Period:</b> 2017 - 2018 EoY <b>Result Type:</b> Criterion Not Met 1/7(14%) of the students in WELD 1517 successfully passed the performance test (07/01/2018) <b>Analysis:</b> After a review of the data it was determined that students struggle with being successful on this outcome.</p>	<p><b>Action Taken (Use of Results):</b> While the 60% criterion was not met and only 14% of students passed the performance it is decided that the goal will remain 60% and training will be expanded</p>

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2018 <b>Start Date:</b> 07/01/2016	the performance test		to include more hands-on training practice in this area. (07/24/2018) <b>Follow-Up:</b> Follow up at the end of the fall semester to review student progress. (12/14/2018)
<b>GTAW</b> - Students will be able to preform Perform a gas tungsten arc welding 6G pipe weld using ER70s-6 filler metal. <b>Outcome Status:</b> Active/Ongoing <b>Assessment Year:</b> 2016 - 2017, 2017 - 2018 <b>Start Date:</b> 07/01/2018	<b>Demonstration</b> - A performance test will be given on a gas tungsten arc welding 6G pipe weld. Using ER70s-6 Filler. <b>Criterion:</b> 50% of students in WELD 2222 will successfully passed the performance test	<b>Reporting Period:</b> 2017 - 2018 EoY <b>Result Type:</b> Criterion Met 1/2 (50%) of the students in WELD 2222 successfully passed the performance text (07/24/2018) <b>Analysis:</b> After a review of the data it is observed that students struggled with success on this outcome. However, More hands-on training will be offered in this area.	<b>Action Taken (Use of Results):</b> More hands-on training will be offered in WELD 2222, and a review and a review will be done at the end of the fall to determine if the criterion will need to be adjusted for the 2019/2020 year. (07/24/2018)
<b>Basic Blueprint, Metallurgy, and Weld Symbols</b> - Upon successful completion of this course students will be able to analyze drawings and specifications related to welding problems and jobs. <b>Outcome Status:</b> Active/Ongoing <b>Assessment Year:</b> 2016 - 2017, 2017 - 2018 <b>Start Date:</b> 07/01/2017	<b>Demonstration</b> - NCCER Performance Profile <b>Criterion:</b> 60% of the students in WELD 1120 successfully passed the NCCER Performance Profile	<b>Reporting Period:</b> 2017 - 2018 EoY <b>Result Type:</b> Criterion Met 26/35 (75%) of the students in WELD 1120 successfully passed the NCCER Performance Profile (07/24/2018) <b>Analysis:</b> After a review of the data students did very well with this outcome.	<b>Action Taken (Use of Results):</b> Students did very well with this outcome and with 75% passing the performance profile. The Criterion will be set at 70% for 2018/2019. (07/24/2018) <b>Follow-Up:</b> Due to the success of this PLO follow up will happen at the end of the spring semester. bThis PLO will be monitored throughout the year. (05/05/2019)