

# Assessment: Program Four Column



## Acad Program - Machine Tool Technology

<i>Program Learning Outcomes</i>	<i>Assessment Methods</i>	<i>Assessment Results</i>	<i>Action Taken (Use of Results)</i>
<p><b>PLO 1</b> - Students will successfully demonstrate knowledge and skills required for an entry-level machinist/millwright position.  <b>Outcome Status:</b> Active/Ongoing  <b>Assessment Year:</b> 2020 - 2021, 2021 - 2022, 2022 - 2023, 2023 - 2024  <b>Start Date:</b> 08/01/2020</p>	<p><b>Final Exam Grade</b> - Students will enrolled MTEC 1120, MTEC 1130, MTEC 1220 will demonstrate knowledge and skills required for an entry-level machinist/millwright position through the use of final exam grade.  <b>Criterion:</b> 70% of students will successfully demonstrate the required knowledge of entry-level machinist/millwright position</p>	<p><b>Reporting Period:</b> 2022 - 2023 EoY  <b>Result Type:</b> Criterion Met            89% of the students in MTEC 1220 successfully demonstrated the knowledge and skills required for an entry-level machinist/millwright. (06/01/2023)  <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>            89% of the students in MTEC 1220 successfully demonstrated the knowledge and skills required for an entry-level machinist/millwright which exceeded the criterion. We will continue to review this goal. (06/01/2023)</p>
<p><b>PLO 2</b> - Demonstrate ability to install conveyor systems, connect machinery to power supplies and piping, direct hoisting and setting of machines, adjust the moving and stationary parts of machines to certain specifications.  <b>Outcome Status:</b> Active/Ongoing  <b>Assessment Year:</b> 2020 - 2021, 2021 - 2022, 2022 - 2023, 2023 - 2024  <b>Start Date:</b> 08/01/2020</p>	<p><b>Demonstration</b> - Students will be able to Demonstrate ability to install conveyor systems, connect machinery to power supplies and piping, direct hoisting and setting of machines, adjust the moving and stationary parts of machines to certain specifications based on performance evaluations.  <b>Criterion:</b> 70% of students will successfully demonstrate in MTEC 1220, MTEC 2120, MTEC 2220 the ability to install conveyor systems, connect machinery to power supplies and piping, direct hoisting and setting of machines, adjust the moving and stationary parts of</p>	<p><b>Reporting Period:</b> 2022 - 2023 EoY  <b>Result Type:</b> Criterion Met            100% of the students in MTEC 2120 and MTEC 2220 demonstrate the ability to install conveyor systems, connect machinery to power supplies and piping, direct hoisting and setting of machines, adjust the moving and stationary parts of machines to certain specifications. (06/01/2023)  <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>            100% of the students in MTEC 2120 and MTEC 2220 demonstrate the ability to install conveyor systems, connect machinery to power supplies and piping, direct hoisting and setting of machines, adjust the moving and stationary parts of machines to certain specifications. We will continue to review this goal. (06/01/2023)</p>

Program Learning Outcomes	Assessment Methods	Assessment Results	Action Taken (Use of Results)
<p>machines to certain specifications.</p> <p><b>PLO 3</b> - Demonstrate ability to shape metal parts on lathes, grinders, drill presses, milling machines and computer numerical controlled machines.  <b>Outcome Status:</b> Active/Ongoing  <b>Assessment Year:</b> 2020 - 2021, 2021 - 2022, 2022 - 2023, 2023 - 2024  <b>Start Date:</b> 08/01/2020</p>	<p><b>Demonstration</b> - Students enrolled in MTEC 1210, MTEC 2110, MTEC 2130, MTEC 2230 will demonstrate ability to shape metal parts on lathes, grinders, drill presses, milling machines and computer numerical controlled machines through projects.  <b>Criterion:</b> 70% of students will demonstrate ability to shape metal parts on lathes, grinders, drill presses, milling machines and computer numerical controlled machines through projects.</p>	<p><b>Reporting Period:</b> 2022 - 2023 EoY  <b>Result Type:</b> Criterion Met            96% of the students enrolled in MTEC 1210, MTEC 2110, MTEC 2130, MTEC 2230 demonstrated the ability to shape metal parts on lathes, grinders, drill presses and milling machines through projects. (06/01/2023)  <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>            96% of the students enrolled in MTEC 1210, MTEC 2110, MTEC 2130, MTEC 2230 demonstrated the ability to shape metal parts on lathes, grinders, drill presses and milling machines through projects. We have updated the curriculum and will offer new CNC courses starting with the 2023-24 academic year. We will include MTEC 2234 (Computer Numerical Control III) in the courses that will be evaluated in the future for this PLO. (06/01/2023)</p>
<p><b>PLO 4</b> - Demonstrate ability to troubleshoot and repair pumps, gearboxes, and compressors.  <b>Outcome Status:</b> Active/Ongoing  <b>Assessment Year:</b> 2020 - 2021, 2021 - 2022, 2022 - 2023, 2023 - 2024  <b>Start Date:</b> 08/01/2020</p>	<p><b>Demonstration</b> - Students enrolled in MTEC 2120, MTEC 2220 Demonstrate ability to troubleshoot and repair pumps, gearboxes, and compressors.  <b>Criterion:</b> 70% of students will successfully demonstrate ability to troubleshoot and repair pumps, gearboxes, and compressors.</p>	<p><b>Reporting Period:</b> 2022 - 2023 EoY  <b>Result Type:</b> Criterion Met            100% of the students in MTEC 2120 and MTEC 2220 demonstrated the ability to troubleshoot and repair pumps, gearboxes, and compressors. (06/01/2023)  <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>            100% of the students in MTEC 2120 and MTEC 2220 demonstrated the ability to troubleshoot and repair pumps, gearboxes, and compressors. We will continue to review this goal. (06/01/2023)</p>