

Student Learning Outcome 1: Graduates apply critical thinking in academic and professional environments.

<u>Expected Level of Achievement</u>	<u>Actual Data From Assessment</u>	<u>Actions/Decisions</u>
<p>70% of course outcomes will be met based on student performance</p> <p>80% of course outcomes will be met based on end of course student surveys</p>	<p>21% (3 of 14) course outcomes were met based on student performance – DOES NOT MEET EXPECTATIONS</p> <p>100% (14 of 14) course outcomes were met based on end of course student surveys</p>	<p>Make sure outcomes surveys are done for all core courses – especially those taught by visiting lecturers</p> <p>Make sure visiting lecturers use the course outcomes developed by the department</p> <p>PRTC 121 – consider evaluating activities & group projects for some outcomes rather than strictly using embedded test questions</p> <p>PRTC 206 – dedicate more time during lab lecture reviewing graded troubleshooting exercises to ensure students understand basic troubleshooting techniques</p> <p>PRTC 240 – develop more in-class activities/exercises demonstrating controller response & put together a worksheet for analyzing controller response</p> <p>PRTC 414 – review simulation software with students who have not used it for several years, explore making the software available through an internet link</p> <p>PRTC 414 – partner experienced students, if any, with those who do not have the experience</p> <p>Continue to monitor the status of outcomes to see if these results are consistent over two to three years.</p>

Student Learning Outcome 2: Graduates formulate and express ideas effectively through oral, written, and/or technological communications in academic and professional environments.

<u>Expected Level of Achievement</u>	<u>Actual Data From Assessment</u>	<u>Actions/Decisions</u>
<p>70% of course outcomes will be met based on student performance</p> <p>80% of course outcomes will be met based on end of course student surveys</p>	<p>67% (10 of 15) course outcomes were met based on student performance – DOES NOT MEET EXPECTATIONS</p> <p>100% (15 of 15) course outcomes were met based on end of course student surveys</p>	<p>Make sure outcomes surveys are done for all core courses – especially those taught by visiting lecturers</p> <p>Make sure visiting lecturers use the course outcomes developed by the department</p> <p>PRTC 121 – consider evaluating activities & group projects for some outcomes rather than strictly using embedded test questions</p> <p>PRTC 121 – develop a writing rubric for point scoring papers & summaries to assess written communication</p> <p>PRTC 206 – dedicate more time during lab lecture reviewing graded troubleshooting exercises to ensure students understand basic troubleshooting techniques</p> <p>PRTC 240 – do some team-building exercises early on in class</p> <p>Continue to monitor the status of outcomes to see if these results are consistent over two to three years.</p>

Student Learning Outcome 3: Graduates analyze the global community to make sound judgments in academic and professional environments.

<u>Expected Level of Achievement</u>	<u>Actual Data From Assessment</u>	<u>Actions/Decisions</u>
70% of course outcomes will be met based on student performance 80% of course outcomes will be met based on end of course student surveys	89% (8 of 9) course outcomes were met based on student performance 67% (6 of 9) course outcomes were met based on end of course student surveys – DOES NOT MEET EXPECTATIONS	PRTC 310 – link outcomes to student work so that they see they are actually meeting the outcomes Continue to monitor the status of outcomes to see if these results are consistent over two to three years.

Student Learning Outcome 4: Graduates analyze and solve problems in process systems – in particular those dealing with equipment performance, fluid flow, and material and energy balances.

<u>Expected Level of Achievement</u>	<u>Actual Data From Assessment</u>	<u>Actions/Decisions</u>
<p>70% of course outcomes will be met based on student performance</p> <p>80% of course outcomes will be met based on end of course student surveys</p>	<p>75% (9 of 12) course outcomes were met based on student performance</p> <p>67% (8 of 12) course outcomes were met based on end of course student surveys – DOES NOT MEET EXPECTATIONS</p>	<p>Make sure outcomes surveys are done for all core courses – especially those taught by visiting lecturers</p> <p>PRTC 204 – add 3 graded homework assignments & quizzes involving calculations</p> <p>PRTC 310 – emphasize use of the flowcharting & problem-solving procedures</p> <p>PRTC 310 – link outcomes to student work so that they see they are actually meeting the outcomes</p> <p>Continue to monitor the status of outcomes to see if these results are consistent over two to three years.</p>

Student Learning Outcome 5: Graduates understand the fundamental principles of equipment operation so they will know not just how equipment is operated but why it is operated that way.

<u>Expected Level of Achievement</u>	<u>Actual Data From Assessment</u>	<u>Actions/Decisions</u>
<p>70% of course outcomes will be met based on student performance</p> <p>80% of course outcomes will be met based on end of course student surveys</p>	<p>79% (11 of 14) course outcomes were met based on student performance</p> <p>100% (14 of 14) course outcomes were met based on end of course student surveys</p>	<p>Make sure outcomes surveys are done for all core courses – especially those taught by visiting lecturers</p> <p>Make sure visiting lecturers use the course outcomes developed by the department</p> <p>PRTC 206 – dedicate more time during lab lecture reviewing graded troubleshooting exercises to ensure students understand basic troubleshooting techniques</p> <p>Continue to monitor the status of outcomes to see if these results are consistent over two to three years.</p>