

**Assessment, Improvement, Measurement (AIM) Report: 04/03/2013****Plan Year:** 2011-2012**Unit:** Air Conditioning Technology**Coordinator(s):** Edwin Taylor, Karman Wheeler, William Franklin**Reviewer:** William Franklin

Objective or Outcome	Measure(s)				
	Measure Text	Achievement Target	Results	Achievement Target Result	Use of Findings/Next Steps
SLO 1 - Graduates will be able to service and install systems with R410A refrigeration.	Exam - National 410 Certification Exam with 90% pass rate.	The class average will exceed the 2010-2011 score of 81.6%.	All of the students (16/16) passed the certification exam with an average score of 89.7%.	Met	The student scores improved in comparison of the 2010-2011 scores. Additional lab time with repetitive exercises and varied methods of delivery with the intent to maintain or increase the average score of 89.7%.
SLO 2 - Graduates will be able to service HVAC equipment (with emphasis on heat pump schematics and troubleshooting).	Diagnose and repair selected faults on heat pump simulator with 90% of students obtaining a 75 or higher on a simulator.	Online assessment with improved scores in schematics and troubleshooting.	Overall the students were proficient in servicing HVAC equipment and improved their scores on the schematics (47%) and troubleshooting (65%) components of the exam.	Met	While the scores in schematics and troubleshooting improved, they are still low and need additional work. In 2012-2013 we will provide additional lab time to work on interpreting schematics and heat pump troubleshooting. Individual assistance will be provided as needed.
SLO 3 - Student will be able to calculate heat load reduction and duct design (constant std. pressure method).	Heat load calculation and duct design assessment project rubric. 25 points - Equipment list 25 points - Room to Room Load heat 25 points - Block load 25 points - Duck Design	Heat load calculation Project - All of the students will score 75 points or higher.	All but two students scored over 75 points (average was 91%) (Note: the two students scoring below 75 points did not turn in assignments resulting in the low scores)	Met	Heat load calculations and duct design will continue to be emphasized and will be enhanced in 2012-2013 by adding green energy to curriculum.