ALAMO COLLEGES

PALO ALTO COLLEGE

Program Assessment Report

Program/Award: **AAS Turfgrass & Golf Course Management**
Academic Year Assessed: **2012-2013**
Program Lead Faculty: **Kirk Williams**
Department Chair: **Dean Shelman**

Program Learning Outcome #1	Apply the basic principles of plant function and development emphasizing Horticultural applications.
Courses in the degree plan that address this outcome	HALT 1301
Assessment Method	Plant Structure and Function Lab Practical
Targets for Achievement	70% of assessed students satisfactorily apply the basic principles on the lab practical.
Results	HALT 1301 - Fall 2012 - 14 of 16 students satisfactorily completed the lab practical on plant structure and function = 88% success rate.
Target Met or Not Met	Met
New action plan for improvement of student learning	Monitor assessment to see if changes are needed.
Evaluation of previous cycle's action plans	Capture digital images, process them and use LMS to administer a pre-test. Not Completed but studnets are successfully completing this lab practical.
Program Learning Outcome #2	Perform industry standard horticultural maintenance practices such as fertilizing, pruning, mulch application, mowing and irrigation of South Central Texas landscapes and turf areas.
Courses in the degree plan that address this outcome	HALT 2318 and HALT 2301
Assessment Method	HALT 2318 – Fertilizer Calculations Lab Final HALT 2301 – Informal Observations of Student Performance
Targets for Achievement	70% of assessed students satisfactorily apply the basic principles in selected exercises.

ALAMO COLLEGES

PALO ALTO COLLEGE

Program Assessment Report

Results	HALT 2318 – Spring 2013 -7 of 12 students successfully completed final exam fertilizer calculations for a successful completion rate of 58% HALT 2301 – Fall 2012 - 15 of 15 students successfully marked Natural Target Pruning Cuts on a limb proposed to be removed from a tree.
Target Met or Not Met	Not Met
New action plan for improvement of student learning	Utilize LMS for practice quizzes for fertilizer calculation questions in HALT 2318.
Evaluation of previous cycle's action plans	HALT 2318 – Utilize LMS to develop pre-test questions to address the mathematics issues found with students. Not completed but should be. HALT 2301 – Deploy competency scoring guide for pruning and mulching. Completed. A detailed lab exercise was
Program Learning Outcome #3	Use and maintain equipment common to turf management.
Courses in the degree plan that address this outcome	HALT 2312
Assessment Method	Equipment Maintenance Schedule Lab Exercise
Targets for Achievement	70% of assessed students satisfactorily develop an equipment maintenance plan.
Results	Fall 2012 - 4 of 5 students satisfactorily developed an equipment maintenance plan = 80% success rate.
Target Met or Not Met	Met
New action plan for improvement of student learning	Develop a rubric for grading the plan.
Evaluation of previous cycle's action plans	Continue to monitor assessment instruments and make changes as needed. Completed.
Program Learning Outcome #4	Manage common turfgrass biotic and abiotic problems.
Courses in the degree plan that address this outcome	HALT 2318 and HALT 2323

ALAMO COLLEGES

PALO ALTO COLLEGE

Program Assessment Report

Assessment Method	Responses on Test Questions in HALT 2318 and HALT 2323.
Targets for Achievement	70% of assessed students satisfactorily answer selected questions
Results	HALT 2318 – Spring 2013 – Responses to 5 questions were assessed on the final exam. 2 of 12 students satisfactorily answered the questions = 17% success rate HALT 2323 – Spring 2013 –Responses to 5 questions were assessed on the final exam. 10 of 12 students satisfactorily answered these questions = 83% Success Rate.
Target Met or Not Met	Not Met
New action plan for improvement of student learning	Continue to use the LMS to incorporate a pre-test to reinforce the nutritional deficiency identification.
Evaluation of previous cycle's action plans	Use the LMS to incorporate a pre-test to reinforce the subject matter. A practice test was developed to help identify nutritional disorders however much work is needed to reinforce this material.