

PET FORM
Planning and Evaluation Tracking
(2011-2012 Assessment Period)

Division of: [Industrial & Transportation Technologies](#)

Person Responsible for this Division: [Dr. Fouts](#)

Department of: [Manufacturing](#)

Person Responsible for this Form: [Kim T. Hays](#)

Purpose Statement (With Last Updated Date): [Train students for successful careers in the manufacturing industry \(10/12/11\).](#)

Goal Statement #1:

[Students will attain an industry-recognized credential, certificate, or degree.](#)

Outcome/Objective Statement

(Be sure to include audience, behavior, conditions, degree/benchmark, and evaluation method):

[Upon completion of a manufacturing program, the number of AC students that attain a credential, certificate, or degree will meet or exceed state standards based on the THECB data.](#)

- Results (Provide Numbers and Percentages for Quantitative Data)

<u>Program by Name / CIP codes</u>	<u>Results</u>	<u>State Standard</u>
Industrial Maintenance Technology / 15.0304	2009-2010 > 10 2008-2009 > 12 2007-2008 > 11 2006-2007 > 11 2005-2006 > 22	25 awards / 5 years
Machining / 48.0501	2009-2010 > 10	
Welding / 48.0508	2008-2009 > 12	
NonDestructive Testing / 48.0508	2007-2008 > 29 2006-2007 > 19 2005-2006 > 5	

- Analysis

[The number of completers exceeds state standards.](#)

- Improvements

Welding:

[Recruiting efforts have sought to break the “loser syndrome” associated with welding and approval was given to hire a full time faculty member for the welding program which should stabilize the program.](#)

Machining:

[Equipment upgrades have been approved for CNC instruction. Funds are to come from an AEDC grant.](#)

Non-Destructive Testing:

[Efforts continue to complete the assembly and operation of equipment acquired over the past year.](#)

- Recommendations/Actions for 2011-2012

[Person Responsible \(Who will complete the action?\): Kim T. Hays, Bob Johnson, Bob Gustin, and \(Welding Instructor\)](#)

[Action Plan:](#)

[The short term plan is to salvage the programs through the upcoming construction without losing equipment or supplies. For the programs to survive the will be a full year of work to re-install the equipment](#)

necessary for the bare operation of class projects. All this will have to be done while continuing recruiting and improving curriculum.

Expected Time Frame Needed to Implement Action Plan:

2 years

Budget Information Needed for Future Action (Cost/Details):

Uncertainty about the final construction plans prohibit predictions. Release time???

Goal Statement #2:

Students will be placed in military service, apprenticeship programs, or placement/retention in employment including placement in high-skill, high-wage, or high-demand professions.

Outcome/Objective Statement

(Be sure to include audience, behavior, conditions, degree/benchmark, and evaluation method):

After completing an AC manufacturing program, 80% of the completing students will be employed or pursue additional education based on THECB data.

- Results (Provide Numbers and Percentages for Quantitative Data)

Three-year period results

<u>Program by Name / CIP codes</u>	<u>Completers</u>	<u>Placement</u>	<u>%</u>	<u>Percent</u>
Industrial Maintenance Technology / 15.0304	32	29	90.62	No Standard Historically 85% of workforce education program completers (3 year average) are employed or pursuing additional education within one year of graduation.
Machining / 48.0501	53	44	83.02	
Welding / 48.0508				
NonDestructive Testing / 48.0508				

- Analysis

Employment opportunities and graduate engagement have yielded program successes. Current short term enrollment in all programs indicates a need for recruitment and public education on programs. Economic trends will have an adverse affect on future successes.

- Improvements

List any Improvements Made in the **2010-2011** (Last Academic) Year Based on the **2009-2010** PET Results/
Evaluate Why Improvements Were Successful/Were Not Successful:

Curriculum alignment with American Welding Society, National Institute of Metalworking Skills, and other recognized standards; along with higher admission requirements have brought the programs in line with industry demands. But at the same time public awareness of technical job opportunities has diminished.

Provide the Budget Information Needed to Make Past Improvements (Cost/Details):

Past improvement efforts have focused on instructional design and performance evaluations. Minimum expense has been devoted to program upgrade outside of grant opportunities for expansion.

- Recommendations/Actions for 2011-2012

Person Responsible (Who will complete the action?): ?): Kim T. Hays, Bob Johnson, Bob Gustin, and (Welding Instructor)

Action Plan:

Relations with industry must be strengthened in order to capitalize on the limited opportunities in the immediate future.

Expected Time Frame Needed to Implement Action Plan (Please provide specific deadline date):

Upon completion of the facility remodeling, and reinstallation of equipment, the Industrial Maintenance and Welding programs will require some upgrades in order to achieve industry involvement or recognition.

Budget Information Needed for Future Action (Cost/Details):

Construction plans are incomplete at this time and the survival requirements are unforeseeable.

Goal Statement #3:

Adjust instruction and services based on assessment data (AC Strategic Plan through 2015: Strategy 1.1)

Outcome/Objective Statement

(Be sure to include audience, behavior, conditions, degree/benchmark, and evaluation method):

After facilitating gender equity campaigns, the manufacturing programs will experience a 3% annual growth of total females, based on the THECB data (AC Strategic Plan through 2015: Strategy 1.1.4.)

• Results (Provide Numbers and Percentages for Quantitative Data)

Three-year period results

<u>Program by Name / CIP codes</u>	<u>Number</u>	<u>Percent</u>
Industrial Maintenance Technology / 15.0304	2009-2010 > 9	12.50
	2008-2009 > 9	11.84
	2007-2008 >9	10.71
Machining / 48.0501	2009-2010 > 11	5.33
Welding / 48.0508	2008-2009 > 8	11.27
	2007-2008 > 4	12.09
NonDestructive Testing / 48.0508		

• Analysis

State target percentages have ranged from 22.52% to 23.10% with all programs at Amarillo College falling far below these goals.

• Improvements

List any Improvements Made in the **2010-2011** (Last Academic) Year Based on the **2009-2010** PET Results: Recruiting success has been limited at best. The Manufacturing Department has recruited heavily and persistently presented the opportunities to potential students. Students and faculty have volunteered for presentations and news clips, but none of these have yielded results.

Evaluate Why Improvements Were Successful/Were Not Successful:

Past efforts have focused on the success of non-traditional students and not on mass involvement of these groups. Public awareness continues to be a major obstacle.

Provide the Budget Information Needed to Make Past Improvements (Cost/Details):

Campaigns and recruiting were performed by faculty without additional institutional expense.

- Recommendations/Actions for 2011-2012

Person Responsible (Who will complete the action?): Kim T. Hays, Bob Johnson, Bob Gustin, and (Welding Instructor)

Action Plan:

The Manufacturing Department will continue to recruit and educate potential students on the opportunities which exist for females in technical trades. Upon completion of construction in the instructional labs, existing female students will be utilized to develop future campaigns for the programs.

Expected Time Frame Needed to Implement Action Plan (Please provide specific deadline date):

Two years after completion of construction.

Budget Information Needed for Future Action (Cost/Details): The uncertainty of the fate of future equipment and instructional areas prohibits the speculation of funds needed to accomplish these goals.
