



unit **PIE**

2014-15
2015-16
2016-17
2017-18

Planning for Institutional Effectiveness

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NOTE: This PIE Form is optimized to be used in Acrobat or [Adobe Reader 10 or later](#).



Planning for Institutional Effectiveness

Introduction

UNIT	Aircraft Maintenance	Current Year	YEAR 1	YEAR 2	YEAR 3
Contact Person	David Yost	2014-15	2015-16	2016-17	2017-18
E-mail / Extension	dyost@mtsac.edu, Ext. 4773	<input checked="" type="checkbox"/> Summary	<input checked="" type="checkbox"/> Planning	<input checked="" type="checkbox"/> Planning	<input checked="" type="checkbox"/> Planning

Your Unit Program Review will be recorded on this form summarizing the current year and documenting planning for the next three-year cycle. **Please remember** that all outcomes assessment work should be recorded in TracDat (<http://tracdat.mtsac.edu/tracdat>) in order for your assessment work to best contribute to institutional reports. Outcomes assessment work may include courses, programs, direct and indirect services, organizational structure, structural elements, and institutional outcomes. Respond to only the outcomes categories or types that apply to your unit.

Institutional Planning Framework

The college is unified through its demonstrated connection to the mission. Driven by the California Master Plan for Higher Education, revised by the President's Advisory Council, and approved by the Board of Trustees, it informs all planning and assessment.

Institutional Mission

The mission of Mt. San Antonio College is to support students in achieving their full educational potential in an environment of academic excellence.

Unit Mission

Preparing our students with the knowledge and skills to enable them to acquire and maintain productive careers in the field of aircraft maintenance.

College Themes and Goals

College themes and goals allow the campus to focus on critical issues. Articulated by the President's Advisory Council and approved by the Board of Trustees, they guide institutional planning and assessment processes.

Theme A: To Advance Academic Excellence and Student Achievement

- | | |
|-----------------|---|
| College Goal #1 | The college will prepare students for success through the development and support of exemplary programs and services. |
| College Goal #2 | The college will improve career/vocational training opportunities to help students maintain professional currency and achieve individual goals. |
| College Goal #3 | The college will utilize student learning outcome and placement assessment data to guide planning, curriculum design, pedagogy, and/or decision-making at the department/unit and institutional levels. |

Theme B: To Support Student Access and Success

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|-----------------|---|
| College Goal #4 | The college will increase access for students by strengthening recruitment opportunities for full participation in college programs and services. |
| College Goal #5 | Students entering credit programs of study will be ready for college level academic achievement. |
| College Goal #6 | The college will ensure that curricular, articulation, and counseling efforts are aligned to maximize students' successful university transfer. |

Theme C: To Secure Human, Technological, and Financial Resources to Enhance Learning and Student Achievement

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|------------------|---|
| College Goal #7 | The college will secure funding that supports exemplary programs and services. |
| College Goal #8 | The college will utilize technology to improve operational efficiency and effectiveness and maintain state-of-the-art technology in instructional and support programs. |
| College Goal #9 | The college will provide opportunities for increased diversity and equity for all across campus. |
| College Goal #10 | The college will encourage and support participation in professional development to strengthen programs and services. |
| College Goal #11 | The college will provide facilities and infrastructure that support exemplary programs and the health and safety of the campus community. |
| College Goal #12 | The college will utilize existing resources and improve operational processes to maximize efficiency of existing resources and to maintain necessary services and programs. |

Theme D: To Foster an Atmosphere of Cooperation and Collaboration

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|------------------|---|
| College Goal #13 | The college will improve the quality of its partnerships with business and industry, the community, and other educational institutions. |
| College Goal #14 | The college will improve effectiveness and consistency of dialogue between and among departments, committees, teams, and employee groups across the campus. |

SectionOne

Where We Are: A Summary and Analysis of the Current Year 2014-15

I. Summary Context - Unit Goals for: Aircraft Maintenance

Identify the goals that guided your Unit's work for the 2014-15 year (from your 2013-14 PIE form) in the following table and connect those goals to the College Themes. *Add rows (+) as needed. Delete rows (X).*

Unit Goal Name	Unit Goal	<u>College Theme</u>
Increase Norms Scores	Increase national ranking in FAA written testing	A: Academic Excellence
Curriculum Update	Update curriculum to satisfy new FAA curriculum requirements.	B: Access and Success
Airframe Trainers	Secure additional industry-industry relevant airframe trainers	C: Secure Resources
Partnerships	The Department will increase the number of industry partnerships and place more students in work experience environments	D: Cooperation/Collaboration

II. Notable Achievements for: Aircraft Maintenance

Enter your Unit's successes for the 2014-15 year in the table below. This provides opportunity for closing the loop on your Unit's activities completed this year. *Text boxes will expand as needed. Add rows (+), delete rows (X).*

Priority for Manager Summary	Unit Achievements for the 2014-15 Year	Connected Unit Goal/ College Theme
High	AIRM aquired two new Avotek nose landing gear trainers with support material	Unit: Airframe Trainers
		C. Secure Resources
High	AIRM facilitated ten work experience internships with an industry partner.	Unit: Partnerships
		D. Cooperation/Collaboration

Priority for Manager Summary	Unit Achievements for the 2014-15 Year	Connected Unit Goal/ College Theme
High	The two year average for FAA written exams increased to 100% pass rate for airframe (versus 92% national average), 100% for powerplant (versus 92% national average) and 90% for general (versus 89% national average).	Unit: Increase Norms Scores
		A. Academic Excellence

III. External/Internal Conditions, Trends, Impacts, Retention & Success, Critical Decisions and Outcomes Assessment

The following table is intended to track conditions that influence planning over a multi-year period beginning with the 2014-15 year. Please include data. The "Link to Data Sources and Support Options" button will open a Mt. SAC webpage that offers suggestions and links for possible data sources for your Unit. Text boxes will expand. *Add (+) rows, delete (X) rows as needed.*

Link to Data Sources and Support Options		
Year	<i>Add item</i> External Conditions, Trends, or Impacts	Data Sources
2014-15	Modify curriculum to mirror recent change to FAA A&P Mechanics Practical Test Standards (FAA Order 8900.2A)	FAA inspector & DME feedback from Oral & Practical exams
Year	<i>Add item</i> Internal Conditions, Trends, or Impacts	Data Sources
2014-15	Modify irregular evening airframe course flow to provide a more logical order of subject matter. This will present entry level airframe subject matter in a more logical and organized format.	Internal test results for evening airframe courses
Year	<i>Add item</i> Retention and Success Data	Data Sources
2014-15	Improving student written test scores in those areas showing weakness (FAA Norms report 24 month to 1Q2015)	FAA norms reports
Year	<i>Add item</i> Critical Decisions	Data Sources
2014-15	Removed prerequisites from AIRM 74 (Work experience) to permit access of this course to more AIRM students.	MtSAC Argos reports
2014-15	Modified AIRM 74 (Work experience) to variable units to permit access of this course to more AIRM students.	MtSAC Argos reports
Year	<i>Add item</i> Progress on Outcomes Assessment	Data Sources
2014-15	At this time, all 27 courses and all certificates are updated and within their review cycle. Three courses will require review in the 2015-2016 year.	Web CMS

IV. Alignment and Progress on Unit and College Goals: Closing the Loop

This section serves as a "reporting" function. It shows how your Unit closes the loop and connects planning to budget allocation: How did the prioritized college resources connect to your Unit's outcomes? What progress has your Unit made with the resources provided? Include progress on plans that did not require new resources if applicable. You are also prioritizing your Unit's progress or outcome for inclusion in your manager's summary. The **Plan Status** drop-down offers a time-frame update on the progress of your plan.

Some information has been pre-loaded into this form by your manager. Add rows (+) as needed. Delete rows (X).

Priority for Manager Summary	Plan from Previous PIE (2013-14) and Resources Obtained (if any)		Resources Secured (if any)	Progress/Outcomes/Result/Impact (Resource requests should be based on outcomes assessment)	Connected Unit Goal/ College Theme
Priority	Airframe Componentry - Nose Gear Assembly and Baron Landing Gear		\$ 6,176.11	Acquisition of this equipment has resulted in an increase in student ability to understand aircraft landing gear inspection and repair as is evident in student lab project scores.	Unit: Airframe Trainers
			Instr. Equipment		C. Secure Resources
	Plan Status	Complete	Source 2		
Priority	Troubleshooting Trainer w/ Storage Case, Fault board, Electricity Software and Electronics Software		\$ 21,603.61	Acquisition of this equipment has resulted in an increase in student ability to troubleshoot aircraft electrical systems as is evident in exam scores	Unit: Increase Norms Scores
			Instr. Equipment		A. Academic Excellence
	Plan Status	Complete	Source 2		

SectionTwo

Where We Are Going: Planning for the Next Three Years: 2015-16, 2016-17, 2017-18

I. Planning Context - Unit Goals Assessed and Revised for: Aircraft Maintenance

This table contains your goals as noted in Section One for 2014-15. Review your Unit's goals and revise, add new goals or remove goals that are no longer relevant as appropriate for planning for 2015-16, 2016-17, and 2017-18. *Add rows (+) as needed. Delete rows (X).*

Unit Goal Name	Unit Goal	College Theme
Increase Norms Scores	Increase national ranking in FAA written testing	A: Academic Excellence
Curriculum Update	Update curriculum to satisfy new FAA curriculum requirements.	B: Access and Success
Airframe Trainers	Secure additional industry-industry relevant airframe trainers	C: Secure Resources
Partnerships	The Department will increase the number of industry partnerships and place more students in work experience environments	D: Cooperation/Collaboration

II. Annual Implementation Plan for: Aircraft Maintenance

This section serves as a "planning" function. This is where you ask for resources and record new action plans, activities, or interventions necessary to achieve success. Use the Expected Outcomes section to describe how the plan and resources requested is supported by your Unit's to outcomes assessment plan. This section will also be used to record revisions to plans as needed across the three years of planning.

Add rows (+) as needed. Delete rows (X).

Priority for Manager Summary	Plans, Activities, or Interventions	Resources Needed (if any)	Expected Outcomes / Criteria for Success (Resource requests should be based on outcomes assessment)	Connected Unit Goal/ College Theme
High	Implementation of a powerplant lab project that concentrates on turboprop engine theory and operation The project	\$ \$84,000.00 Source 1	By providing a hands-on trainer for students to inspect and operate, it is expected that students will gain a better understanding of the theory and principles of operation of the	Unit: Increase Norms Scores
New	Projected Completion 2017-18	Source 2	Person Responsible David Yost	A. Academic Excellence

Priority for Manager Summary	Plans, Activities, or Interventions		Resources Needed (if any)	Expected Outcomes / Criteria for Success (Resource requests should be based on outcomes assessment)	Connected Unit Goal/ College Theme
Med	Implementation of an airframe and powerplant lab project that involves industry relevant inspection and maintenance of the engine.		\$ \$250,000.00	By providing a hands-on trainer for students to inspect and operate, it is expected that students will gain a better understanding of the theory and principles of operation of the engine.	Unit: Increase Norms Scores
			Source 1		
New	Projected Completion	2017-18	Source 2	Person Responsible David Yost	A. Academic Excellence
Med	Update of computer lab including modern computers, printers and current industry relevant software.		\$ \$20,000.00	Updating hardware and software will allow students to be technically competent on industry software and systems. Students will be more highly qualified during employer interviews.	Unit: Increase Norms Scores
			Source 1		
Ongoing	Projected Completion	2016-17	Source 2	Person Responsible David Yost	B. Access and Success
High	Replacement for inoperative and obsolete alternators, airframe componentry, actuators and pumps.		\$ \$6,200.00	By providing modern hands-on trainers for students to inspect and operate, it is expected that students will gain a better understanding of the theory and principles of operation of the engine.	Unit: Airframe Trainers
			Source 1		
Ongoing	Projected Completion	2017-18	Source 2	Person Responsible David Yost	C. Secure Resources

III. Resources Identified in Relation to Planning

This section will serve the budget prioritization function in the Manager's PIE. Your manager will inform you when actual quotes are due.

SectionThree

Recommendations for Improving the Planning Process

What additional information should the College provide to assist your Unit's planning?

Enter additional information suggestions here.

What suggestions do you have for improving the planning process for your Unit?

Enter your suggestions for improvement here.

Enter your name as contributing to and approving of this Unit PIE Plan below. Add rows (+) as needed.

Contributer		Contributer	
David Yost	<input checked="" type="checkbox"/> Approve	Add your name as contributing to this Unit PIE and check that you approve	<input type="checkbox"/> Approve

Thank you for completing the Unit PIE form summarizing 2014-15, and initiating your Unit's planning for the 2015-16, 2016-17, and 2017-18 three-year cycle.

Please save this form and forward to your Unit's manager by 06/30/ 2015.
Questions regarding this form? Send an email to Don Sciore, Interim Associate Dean of Arts, member IEC, at dsciore@mtsac.edu