

*Lane Community College*  
*Unit Planning: Instruction & Student Services*  
*ATD: Avionics Technician*

**Funding Analysis: Avionics Technician**

**1. What did your unit accomplish last year in relationship to the annual planning initiatives?**

	Avionics lab test equipment	\$10,000
Program FY05 Priority: 3	Fully Funded C	\$10,000

We will have a need for avionics equipment test equipment. We have a need for line check equipment and diagnostics. We have a need for cable building tools and harness jigs. Shop supplies: spare parts, cable building materials etc.

**2. Other accomplishments not related to the annual planning initiatives?**

This program is still not reactivated.

**3. What are the areas that still need attention and were partially funded?**

No unit planning initiatives were partially funded last year.

**4. What are the areas that still need attention and were not funded?**

	CBT Computer Lab (4 computers + 1 printer)	\$7,000
Program FY05 Priority: 1	No Funding TF	

CBT and real-time recording of student training hours and certification by skill as well as testing will influence all elements within the unit. Students will be working as a part of the total team including faculty, administrative staff and maintenance p

	Avionics VR software	\$7,500
Program FY05 Priority: 2	No Funding C TF	

This technology is also used to manage all major systems on the aircraft including flight control systems, fuel management status of systems operations including engine control. All conventional flight control and systems control data is now displayed in

	PT faculty	\$7,500
Program FY05 Priority: 4	No Funding NF O	

To start the program, at least one 1/4 time avionics faculty position to be funded.

**5. Considering your responses to questions 1 and 2 and emerging needs and demands, what are your plans for next year? This conclusion should be the foundation on which initiatives are built.**

The faculty have reviewed each of the four program assessment components. This assessment review is the foundation for the program's planning initiatives:

1) Achieving the Learning Outcomes - What skills and knowledge will the students have when they complete the program and enter the workforce? The assessment will review the actual performance of the program to its planned performance criteria.

2) Achieving the Operating Outcomes - Does the program have the capacity and resources to achieve its program operating outcomes? How well is this program operating compared to college and divisional benchmarks? The assessment will review the actual performance of the program to its planned performance criteria (enrollment ratios and trends; cost ratios; student retention, completion, success, diversity and satisfaction; employer satisfaction.)

3) Maintaining the Learning Environment. The program should continuously maintain, upgrade and improve its existing human, curriculum, equipment, software, and facility resources. The status of the program's equipment inventory is reviewed. Obsolete, inoperable, unsafe or ineffective equipment is identified for replacement.

4) Enhancing the Learning Environment. The program should acquire and incorporate new human, curriculum, equipment, software, and facility resources.

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**Annual Program Plan - FY06**

**Avionics Technician**

**1. Initiative Title**

ANE01

**Division Initiative Priority:** 9

**Initiative ID:**

Re-establish the Avionics Program

**2. How is the initiative linked to your Program Outcomes Analysis for last year?**

***What program level outcomes do you expect to achieve?***

***Program Outcomes Analysis Finding***

The program should enhance its learning environment to appropriately respond to new opportunities and challenges. The program should acquire and incorporate new human, curriculum, equipment, software and facility resources to continuously improve its efficiency and effectiveness. The following actions and request for resources to enhance the program's resources represent the findings of the unit staff.

**3. Describe the Initiative**

***How does this initiative align with the strategic directions of the college?***

Transforming Students' Lives

- Foster the personal, professional, and intellectual growth of learners by providing exemplary and innovative teaching and learning experiences and student support services.
- Commit to a culture of assessment of programs, services and learning.
- Position Lane as a vital community partner by empowering a learning workforce in a changing economy.

Transforming the Learning Environment

- Create a diverse and inclusive learning college: develop institutional capacity to respond effectively and respectfully to students, staff, and community members of all cultures, languages, classes, races, genders, ethnic backgrounds, religions, sexual orientations, and abilities.
- Create, enhance, and maintain inviting and welcoming facilities that are safe, accessible, functional, well-equipped, aesthetically appealing and environmentally sound.

***What will the product, innovation or change of this initiative be? Please be as specific as possible.***

1) CBT Computer Lab (4 computers + 1 printer)= \$7,000

CBT and real-time recording of student training hours and certification by skill as well as testing will influence all elements within the unit. Students will be working as a part of the total team including faculty, administrative staff and maintenance personnel. The FAA has very strict rules related to records showing hours of lecture instruction and lab instruction and the FAA requires a clear instructional track to final certifiable skills on a task by task basis. The on-line capacity provides for maintaining a complete record of the student's total training and demonstration of skills and practical experience. The objective is to provide the graduate with a complete portfolio as a record of training, skills certification and experience.

2) = Avionics VR software = \$7,500

This technology is also used to manage all major systems on the aircraft including flight control systems, fuel management status of systems operations including engine control. All conventional flight control and systems control data is now displayed in CRT-type displays that function much like a conventional "Windows environment. Displays may be used in multiple modes and for multiple applications.

3) Avionics lab test equipment = \$10,000

We will have a need for avionics equipment test equipment. We have a need for line check equipment and diagnostics. We have a need for cable building tools and harness jigs. Shop supplies: spare parts, cable building materials etc.

4) PT faculty = \$7,500

To start the program, at least one 1/4 time avionics faculty position to be funded.

***What is the need or intended use? How was that need assessed? What is your evidence of need?***

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The program should obtain new resources to appropriately respond to new opportunities and challenges. Requests may be for new personnel, curriculum, equipment, software, and facilities.

**Overview**

Historically, the college has offered aviation related course in the technologies such as Aviation Maintenance, Avionics and Pilot training. These technical positions represent about 20 percent of the total employee base. The primary objective to be realized is an opportunity to prepare people for jobs in the 80 percent pool of airline industry jobs. Many of these jobs are “professional” positions such as management, legal, marketing and finance. The aviation industry has unique business practices: typically university preparation is generic.

Our objective is to add aviation specific technical training and specialized aviation industry oriented components to a traditional degree so the individual is better qualified for positions in the air transportation industry. A key component of this option is the 2+2+2 design where high school students have an opportunity to do college course work while still in high school. A well designed career path should begin at the high school level, transfer to the local college for two years of technical and transfer course work – always with the intent of transferring to a university: ultimately, the student will qualify for a career position in the air transportation industry.

Students originally intending to pursue an AAS degree in a technology program may elect to take the more rigorous academic program and plan for a four-year degree option that augments specialized certificates, such as pilot certificates and aviation maintenance technician certificates. A variation of the AAOT option is people enrolled at a four-year university concurrently enroll in an aviation specific technical program at the community college.

The college currently has approved programs, labs and equipment for practical training and a well qualified instructional staff. The university system is well established and the articulation between the college and the universities is established and improving. The relationships with the local business community, city of Eugene administration and airport administration are good with considerable interest in supporting aviation related education. The working relationship with Evergreen International Airlines is becoming stronger. Evergreen is increasingly interested in supporting several programs in the college.

Oregon Aviation Education Initiative has been established: this program is developing as an integrated network of educational institutions, airline industry partners and aviation manufacturers. It is expected that as the initiative develops there will be greater participation from both state and federal agencies.

The first order constraint is available time resources for the people providing leadership in this program. It takes time to “culture” working partnerships with the high schools and the universities. A major limitation to developing partnerships with the high schools is having a “champion” within the high schools that will carry forward the work. As the program develops there will be an increased need to more current technology teaching aids and instructional programs provide training which is consistent with industry needs.

***What is the campus location of this request/project?*** Airport

***How many students (FTE per year) will***

***How will students benefit?***

Students benefit by having access to an appropriately staffed, current and relevant learning environment.

**4. Describe the resources needed.**

<b>Unit Priority:</b>	1	<b>Division Line Item</b>	9	<b>Division Initiative Priority:</b>	9		
		CBT Computer Lab (4 computers + 1 printer)	\$7,000	N		TF	
<b>Unit Priority:</b>	2	<b>Division Line Item</b>	60	<b>Division Initiative Priority:</b>	9		
		Avionics VR software	\$7,500	N		CP	TF
<b>Unit Priority:</b>	3	<b>Division Line Item</b>	11	<b>Division Initiative Priority:</b>	9		
		PT faculty	\$7,500	R	NF		MK

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*OF*

**5. List the possible funding**

EX = Existing Funds; NF = New General Funds; CP = Carl Perkins; TF = Tech Fees; CD = Curriculum; MK = Marketing; OF = Other Funds

***Can this project be partially funded?***

The funds requested represent the optimum resource request (not the maximum nor the minimum). Quantities greater than one can be reduced.

***If the funding source is Carl Perkins, how does the request meet one or two of the Carl Perkins Act goals?***

**Student Skills Goal**

This initiative will improve technical skills of students by providing opportunity for those students to learn how to operate safe and reliable equipment of a type that they will be expected to operate by their future employers

**Work-based Learning Goal**

Students should be trained on equipment similar to what they will work with when employed. Employers are seeking employees with knowledge and training on the equipment they have.

**Effect on Profession Technical Education student success?**

Students will gain industry specified skills which lead to higher paying employment.

**Brief Carl Perkins funding history**

The program is reliant upon Carl Perkins funding to maintain and enhance its equipment and other instructional resources. This funding has allowed the program to align its capabilities with the needs of the industry for which it trains students. The result is better qualified students, a better and broader relationship with industry and more efficient use of educational time.

**6. Provide ORG and PROG codes      611450      112000**

**7. What plans do you have for working more effectively with your advisory committee?**

The advisory committee meets with the faculty at least three times per year. The members of the advisory committee provide relevant information about the educational and training skills necessary for students to gain employment. This advice is the basis for identifying the program's future directions.

**Initiative Subtotal =                      \$22,000**

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## **Avionics Technician**

### **1. Initiative Title**

ANC01

**Division Initiative Priority: 31**

**Initiative ID:**

Capital Asset Replacement

### **2. How is the initiative linked to your Program Outcomes Analysis for last year?**

***What program level outcomes do you expect to achieve?***

#### ***Program Outcomes Analysis Finding***

The program needs to maintain its existing learning environment. The program should continuously maintain its existing human, curriculum, equipment, software and facility resources. The existing equipment inventory has a defined annual life cycle cost to maintain. Staff and curriculum need to maintain currency and relevance to the changes in the discipline, technology and the workforce. The following actions and request for resources to maintain the program's existing resources represent the findings of the unit staff.

### **3. Describe the Initiative**

#### ***How does this initiative align with the strategic directions of the college?***

Transforming Students' Lives

- Foster the personal, professional, and intellectual growth of learners by providing exemplary and innovative teaching and learning experiences and student support services.
- Commit to a culture of assessment of programs, services and learning.
- Position Lane as a vital community partner by empowering a learning workforce in a changing economy.

Transforming the Learning Environment

- Create a diverse and inclusive learning college: develop institutional capacity to respond effectively and respectfully to students, staff, and community members of all cultures, languages, classes, races, genders, ethnic backgrounds, religions, sexual orientations, and abilities.
- Create, enhance, and maintain inviting and welcoming facilities that are safe, accessible, functional, well-equipped, aesthetically appealing and environmentally sound.

Transforming the College Organization

- Achieve and sustain fiscal stability.
- Build organizational capacity and systems to support student success and effective operations.
- Promote professional growth and provide increased development opportunities for staff both within and outside the College.

***What will the product, innovation or change of this initiative be? Please be as specific as possible.***

The capital asset replacement inventory

***What is the need or intended use? How was that need assessed? What is your evidence of need?***

The program has an inventory of capital equipment. This equipment should be replaced based on its useful life.

***What is the campus location of this request/project?*** Airport

***How many students (FTE per year) will benefit?***

***How will students benefit?***

Students benefit by having access to an appropriately staffed, current and relevant learning environment.

### **4. Describe the resources needed.**

**Unit Priority:** 90    **Division Line Item** 16    **Division Initiative Priority:** 31

CARF Replacement    \$2,000    R

OF

### **5. List the possible funding**

EX = Existing Funds; NF = New General Funds; CP = Carl Perkins; TF = Tech Fees; CD = Curriculum; MK = Marketing; OF = Other Funds

***Can this project be partially funded?***

The funds requested represent the optimum resource request (not the maximum nor the minimum). Quantities

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greater than one can be reduced.

***If the funding source is Carl Perkins, how does the request meet one or two of the Carl Perkins Act goals?***

**Student Skills Goal**

This initiative will improve technical skills of students by providing opportunity for those students to learn how to operate safe and reliable equipment of a type that they will be expected to operate by their future employers

**Work-based Learning Goal**

Students should be trained on equipment similar to what they will work with when employed. Employers are seeking employees with knowledge and training on the equipment they have.

**Effect on Profession Technical Education student success?**

Students will gain industry specified skills which lead to higher paying employment.

**Brief Carl Perkins funding history**

The program is reliant upon Carl Perkins funding to maintain and enhance its equipment and other instructional resources. This funding has allowed the program to align its capabilities with the needs of the industry for which it trains students. The result is better qualified students, a better and broader relationship with industry and more efficient use of educational time.

**6. Provide ORG and PROG codes**    611450    112000

**7. What plans do you have for working more effectively with your advisory committee?**

The advisory committee meets with the faculty at least three times per year. The advisory committee reviews the program's existing resources (curriculum, equipment, software, personnel, facilities) and makes recommendations to improve the existing learning environment.

**Initiative Subtotal =                      \$2,000**

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**Avionics Technician**

**1. Initiative Title**

ANL01

**Division Initiative Priority: 38**

**Initiative ID:**

Implement a Learning Outcomes Assessment System

**2. How is the initiative linked to your Program Outcomes Analysis for last year?**

***What program level outcomes do you expect to achieve?***

***Program Outcomes Analysis Finding***

Program learning outcomes identify the skills and knowledge students will have when they complete the program and enter the workforce. The unit staff have implemented a learning outcomes assessment process to analyze the discrepancies between the planned performance indicators and the actual performance of the student program completers. The following actions and request for resources to achieve the program's learning outcomes represent the findings of the unit staff.

**3. Describe the Initiative**

***How does this initiative align with the strategic directions of the college?***

Transforming Students' Lives

- Foster the personal, professional, and intellectual growth of learners by providing exemplary and innovative teaching and learning experiences and student support services.
- Commit to a culture of assessment of programs, services and learning.
- Position Lane as a vital community partner by empowering a learning workforce in a changing economy.

***What will the product, innovation or change of this initiative be? Please be as specific as possible.***

Faculty will review, update and publish a set of program learning outcomes and associated performance indicators to include: employability skills, shop/laboratory safety, technical expertise, ability to pass industry certifications, use of the library and

***What is the need or intended use? How was that need assessed? What is your evidence of need?***

The faculty will identify, document and create assessment criteria for the program's learning outcomes. This assessment will be included in future unit plans to identify actions and resources required to assure students achieve the program's learning outcomes.

***What is the campus location of this request/project?*** Airport

***How many students (FTE per year) will***

***How will students benefit?***

Students will assess their progress through the program in relation to the learning outcomes. Students will also recognize these outcomes are annually validated by the advisory committees and the college.

**4. Describe the resources needed.**

**Unit Priority:** 4    **Division Line Item** 17    **Division Initiative Priority:** 38

Program Learning Outcomes Assessment System    \$0    N    EX

**5. List the possible funding**

EX = Existing Funds; NF = New General Funds; CP = Carl Perkins; TF = Tech Fees; CD = Curriculum; MK = Marketing; OF = Other Funds

***Can this project be partially funded?***

The funds requested represent the optimum resource request (not the maximum nor the minimum). Quantities greater than one can be reduced.

***If the funding source is Carl Perkins, how does the request meet one or two of the Carl Perkins Act goals?***

**6. Provide ORG and PROG codes**    611450    112000

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**7. What plans do you have for working more effectively with your advisory committee?**

The advisory committee meets with the faculty at least three times per year. The advisory committee's primary duty is to provide feedback on the effectiveness of the program to produce a skilled workforce. The program's learning outcome criteria and the faculty's achievement analysis are reviewed by the advisory committee. The committee makes recommendations to either adjust the criteria or to improve the program's

<b>Initiative Subtotal =</b>	<b>\$0</b>
<b>Program Total =</b>	<b>\$24,000</b>



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VP/AVP/ED Responsible	Division/Unit	Initiative Priority	Date of Initiative	Expected completion date	Initiative Title	Resource Description	\$\$	Recurring / Nonrecurring	Resource Type (mark with an "X")				Funding Sources (mark with an "X")						
									Payroll	Equipment	Space	Other	Existing	New Gen Fund	Carl Perkins	Stud Tech Fee	Curr Dev	Marketing	Other
PL	ATD/Avionics Technician	9	11/15/2005	12/31/2006	Re-establish the Avionics Program	CBT Computer Lab (4 computers + 1 printer)	\$7,000.00	N		X						X			
PL	ATD/Avionics Technician	9	11/15/2005	12/31/2006	Re-establish the Avionics Program	Avionics VR software	\$7,500.00	N		X					X	X			
PL	ATD/Avionics Technician	9	11/15/2005	12/31/2006	Re-establish the Avionics Program	PT faculty	\$7,500.00	R	X					X				X	X
PL	ATD/Avionics Technician	31	11/15/2005	12/31/2006	Capital Asset Replacement	CARF Replacement	\$2,000.00	R		X									X
PL	ATD/Avionics Technician	38	11/15/2005	12/31/2006	Implement a Learning Outcomes Assessment System	Program Learning Outcomes Assessment System	\$0.00	N				X	X						