



Student Learning Outcomes Committee

Approved Agenda

April 10, 2023 | 2:30 PM | Room 2450

This meeting is in-person in Room 2450.

LPC Mission Statement

Las Positas College is an inclusive, learning-centered, equity-focused environment that offers educational opportunities and support for completion of students' transfer, degree, and career-technical goals while promoting lifelong learning.

LPC Planning Priorities

- ❖ Establish a knowledge base and an appreciation for equity; create a sense of urgency about moving toward equity; institutionalize equity in decision-making, assessment, and accountability; and build capacity to resolve inequities.
- ❖ Increase student success and completion through change in college practices and processes: coordinating needed academic support, removing barriers, and supporting focused professional development across the campus.

SLO Committee Quorum:

Voting Members:

John Rosen (SLO Chair; BSSL)
Liz McWhorter (SLO Support)
Kimberly Burks (Student Services)
Jennie Graham (STEM)
Stuart McElderry (Dean, BSSL)
Karin Spirn (A&H)

Guests:

Call to Order

John Rosen

Review and Approval of Agenda

John Rosen

Review and Approval of Minutes

John Rosen

(March 27, 2023)

Public Comment (This time is reserved for members of the public to address the SLO Committee. Please limit comments to three minutes. In accordance with the Brown Act, the SLO Committee cannot discuss or act on items not on the agenda.)

Reports

- Chair's Report

John Rosen

- Administrator's Report

Stuart McElderry

CSLO Reviews

First Readings

APHT 51 (Heavy Truck Driving Academy)

Upon completion of APHT 51, the student will be able to:

1. Explain state and federal rules that regulate the different types of commercial motor vehicles.
2. Recognize the need for defensive driving skills to prevent fatalities, injuries, and property damage.
3. Define defensive driving and state the 5 Smith System Safety Keys.

APHT 52 (Heavy Truck Driving Test Preparation)

Upon completion of APHT 52, the student will be able to:

1. Perform a safety inspection.
2. Correctly merge onto a freeway.
3. Perform pre-inspection.

APHT 94 (Occupational Work Experience - Heavy Truck Driving Apprenticeship)

Upon completion of APHT 94, the student should be able to:

1. Achieve workplace learning objectives established by the student, supervisor, and instructor.
2. Describe professional work skills in the workplace.
3. Write a professional résumé including work experience completed during the course.

Revisions

AJ 55 (Introduction to Correctional Science)

Upon completion of AJ 55, the student will be able to:

Describe the unique issues related to incarcerating female, juvenile, special needs, and non-heterosexual identity offenders, and death row inmates.

Second Readings

AMT 50 (Success in Aviation Maintenance Technology)

Upon completion of this course, the student should be able to:

1. Describe the range of career opportunities for aviation mechanics within and beyond the core industry.
2. Demonstrate fluency in safety techniques, mindsets, and practices.
3. Discern the appropriate methods and tools utilized to perform common aviation maintenance tasks.

AMT 52 (Basic Science of Aviation Maintenance Technology)

Upon completion of this course, the student should be able to:

1. Calculate resistance, current, and voltage in electrical circuits.
2. Explain the process of servicing batteries.
3. Describe the procedures for cleaning and corrosion control on aircraft.

AMT 52L (Basic Science of Aviation Maintenance Technology Laboratory)

Upon completion of this course, the student should be able to:

1. Use meters and test equipment to assess and service batteries.
2. Demonstrate rivet repair and installation.
3. Perform corrosion control methods on aircraft.

AMT 54 (Survey of Aviation Maintenance Technology)

Upon completion of this course, the student should be able to:

1. Describe maintenance regulations defined by the Federal Aviation Administration.
2. Compare the usage and application of non-destructive testing techniques.
3. Explain safe ground operations and servicing practices.

AMT 54L (Survey of Aviation Maintenance Technology Laboratory)

Upon completion of this course, the student should be able to:

1. Complete maintenance forms, record keeping, and publication searches.
2. Inspect and replace fluid lines and fittings.
3. Assess and repair aircraft finishes, and plastic and bonded structures.

AMT 60 (Airframe Systems I)

Upon completion of this course, the student should be able to:

1. Identify core airframe electrical systems.
2. Describe aircraft control systems for cabin environments, ice and rain, and instrumentation.
3. Discuss the function of landing gear warning and pneumatic power systems.

AMT 60L (Airframe Systems I Laboratory)

Upon completion of this course, the student should be able to:

1. Evaluate and assess core airframe electrical systems for airworthy standards.
2. Examine sheet metal structures for airworthy standards.
3. Assess landing gear warning and pneumatic power systems.

AMT 62 (Airframe Systems II)

Upon completion of this course, the student should be able to:

1. Describe the practices of assembly and rigging procedures.
2. Summarize the function of hydraulic and landing gear systems.
3. Explain the operation of wheels, tires, brakes and anti-skid systems.

AMT 62L (Airframe Systems II Laboratory)

Upon completion of this course, the student should be able to:

1. Perform common assembly and rigging procedures.
2. Inspect hydraulic and landing gear systems.
3. Evaluate and maintain wheels, tires, brakes and anti-skid systems.

AMT 64 (Airframe Systems III and Review)

Upon completion of this course, the student should be able to:

1. Describe the function of aviation communication and navigation systems.
2. Explain the operation of take-off and anti-skid warning systems.
3. Summarize the role of airframe fire detection and extinguishing systems.

AMT 64L (Airframe Systems III and Review Laboratory)

Upon completion of this course, the student should be able to:

1. Perform general airframe testing and inspections.
2. Evaluate communication and navigation, warning, and fire control systems.
3. Demonstrate proficiency with fundamental welding techniques.

AMT 70 (Theory of Powerplants I)

Upon completion of this course, the student should be able to:

1. Explain the operation of aircraft reciprocating and turbine engines.
2. Describe the function of aircraft engine lubrication, fuel and cooling systems.
3. Discuss the process for the removal and installation for reciprocating engines.

AMT 70L (Theory of Powerplants I Laboratory)

Upon completion of this course, the student should be able to:

1. Perform general testing and inspections of reciprocating and turbine engines.
2. Demonstrate maintenance procedures for aircraft engine lubrication, fuel and cooling systems.
3. Disassemble and assemble an aircraft powerplant.

AMT 72 (Theory of Powerplants II)

Upon completion of this course, the student should be able to:

1. Describe the function of fuel metering systems.
2. Discuss the operation of induction and exhaust systems.
3. Explain the purpose of engine instrument systems.

AMT 72L (Theory of Powerplants II Laboratory)

Upon completion of this course, the student should be able to:

1. Inspect the aircraft fuel metering systems.
2. Assess the function of engine instrument systems.
3. Demonstrate maintenance procedures for induction and exhaust systems.

AMT 74 (Advanced Powerplants I)

Upon completion of this course, the student should be able to:

1. Describe the importance of the propeller and propeller systems.
2. Explain the process for reciprocating engine inspection and troubleshooting.
3. Discuss the purpose of engine fire protection systems.

AMT 74L (Advanced Powerplants I Laboratory)

Upon completion of this course, the student should be able to:

1. Inspect the propeller and propeller systems.
2. Test and troubleshoot common issues with reciprocating engines.
3. Assess and service engine fire protection systems.

AMT 76 (Advanced Powerplants II)

Upon completion of this course, the student should be able to:

1. Discuss gas turbine engine classification, construction, and nomenclature.
2. Explain gas turbine engine principles, performance, and operation.
3. Describe the procedures for the installation, overhaul, inspection and repair of gas turbine, turboprop engines, and auxiliary power units.

AMT 76L (Advanced Powerplants II Laboratory)

Upon completion of this course, the student should be able to:

1. Identify gas turbine engine classes, construction types, and nomenclature.
2. Inspect, repair, overhaul, install, and operate gas turbine, turboprop engines, and auxiliary power units.
3. Install helicopter powerplants.

AMT 80 (Aviation Maintenance Technology Test Preparation)

Upon completion of this course, the student should be able to:

1. Prepare for the oral, practical and written portions of the general, powerplant, and airframe sections of the Federal Aviation Administration Aircraft Mechanics test.
2. Demonstrate fluency in all sections of the general, powerplant, and airframe sections of the Federal Aviation Administration Aircraft Mechanics test.
3. Apply common test taking strategies to improve exam scores.

PSLO Reviews**First Readings****Heavy Truck Driving Certificate of Achievement**

Upon successful completion of the Heavy Truck Driving Certificate of Achievement, students will be able to:

1. Identify defensive driving strategies and skills for avoiding collisions in limited/reduced visibility, traction, and space conditions.
2. Perform a proper pre-trip, in-route and post trip inspection of a truck/tractor and trailer.
3. Demonstrate the safe and proper way to enter and exit the cab of a commercial vehicle
4. Back a tractor and trailer with reasonable proficiency.

Heavy Truck Driving Academy Certificate of Achievement

Upon successful completion of the Heavy Truck Driving Academy Certificate of Achievement, students will be able to:

1. Identify defensive driving strategies and skills for avoiding collisions in limited/reduced visibility, traction, and space conditions.
2. Perform a proper pre-trip, in-route and post trip inspection of a truck/tractor and trailer.
3. Demonstrate the safe and proper way to enter and exit the cab of a commercial vehicle
4. Back a tractor and trailer with reasonable proficiency.

Second Readings**AMT AS Degree Airframe**

Upon successful completion of the AMT AS Degree Airframe, students will be able to:

1. Assess, document, and maintain aircraft systems according to airworthy standards.
2. Recognize and apply safety methods used by aviation maintenance technicians.
3. Demonstrate skills and knowledge to satisfy the FAA requirements to become a certified Aircraft Maintenance Technician.

AMT AS Degree Powerplant

Upon successful completion of the AMT AS Degree Powerplant, students will be able to:

1. Assess, document, and maintain powerplant systems according to airworthy standards.
2. Recognize and apply safety methods used by aviation maintenance technicians.
3. Demonstrate skills and knowledge to satisfy the FAA requirements to become a certified Aircraft Maintenance Technician.

AMT Certificate of Achievement: Airframe Technician

Upon successful completion of AMT Certificate of Achievement: Airframe Technician, students will be able to:

1. Assess, document, and maintain aircraft systems according to airworthy standards.
2. Recognize and apply safety methods used by aviation maintenance technicians.
3. Demonstrate skills and knowledge to satisfy the FAA requirements to become a certified Aircraft Maintenance Technician.

AMT Certificate of Achievement Powerplant Technician

Upon successful completion of AMT Certificate of Achievement: Powerplant Technician, students will be able to:

1. Assess, document, and maintain powerplant systems according to airworthy standards.
2. Recognize and apply safety methods used by aviation maintenance technicians.
3. Demonstrate skills and knowledge to satisfy the FAA requirements to become a certified Aircraft Maintenance Technician.

Informational Items

- **3-Year SLO/SAO Plans due**

May 1st: Please email your completed 3-Year Plan template to John or Liz. Thanks in advance!

- **SLO Coaching**

By appointment, via Zoom or in-person (Contact John or Liz)

- **Friday SLO Talks**

April 14 @ 10a-12p: Canvas – Documenting Student Learning

Free Registration: **[Zoom Meeting Registration Link](#)**

Good of the Order

Adjournment

Next Regular Meeting: April 24, 2023 (Rm 2450)