Student Learning Outcomes Committee Approved Minutes

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

This meeting is in-person in Room 2450.

Call to Order at 2:33 pm — John Rosen

Review and Approval of Agenda — John Rosen
Graham/McElderry/Approved

Review and Approval of Minutes — John Rosen
(March 27, 2023)
Graham/McElderry/Approved

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

> Next Division Meeting: (a) Remind your Division About 3-Year Plan deadline (May 1st); (b) for any program looking to submit/revise SLOs/SAOs, submit by 5/2 [in order to make our final 5/8 SLO meeting of the semester].

- Administrator's Report – N/A — 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~~ Explain 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.
4. Demonstrate the safe and proper way to enter and exit the cab of a commercial vehicle.

Brian Hagopian presenting.
- "APHT" / Apprenticeship Heavy Trucking is replacing "APRT" / Apprenticeship Reddaway Trucking, given that Yellow Corporation recently acquired Reddaway [going with more generic "trucking"].

Committee Comments:
- #2: Describe or explain (vs. recognize)? *Brian likes "explain."*

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 a driving pre-inspection.
4. Demonstrate the safe and proper way to enter and exit the cab of a commercial vehicle.

LAS POSITAS COLLEGE

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) - P
Liz McWhorter (SLO Support) - Z*
Kimberly Burks (Student Services) - P
Jennie Graham (STEM) - Z*
Stuart McElderry (Dean, BSSL) - P
Karin Spirn (A&H) - P

Guests: Brian Hagopian (via Zoom), Dan Cearley (in-person)

**Attended meeting via Zoom*

Brian Hagopian presenting.
- Pre-inspection: checking tires, checking lights, etc. It's done every time you use the truck. A safety inspection is done approximately every 90 days.

Committee Comments:
- Is this a type of driving test?
  > *Brian: Doing this is a lab, yes. You need to do a standard safety inspection before you drive a truck.*
- KB: Is this tied to DMV?
  > *Brian: No, it's Yellow's own proprietary stuff.*

APHT 94 (Occupational Work Experience - Heavy Truck Driving Apprenticeship)
Upon completion of APHT 94, the student should be able to:
1. Set and achieve workplace learning objectives established by the student, supervisor, and instructor.
2. Describe industry-recommended ~~professional~~ workplace skills ~~in the workplace~~.
3. Write a professional résumé according to industry standards ~~including work experience completed during the course~~.

Brian Hagopian presenting.

Committee Comments:
-Adjust this to be more measurable [see prior SLO meeting /former Reddaway apprenticeship].
  > Chair Rosen can double-check the old SLO Minutes.
- Per Chair: You probably don't need anything after "résumé."

Revisions

AJ 55 (Introduction to Correctional Science)
Upon completion of AJ 55, the student will be able to:
A. Describe the unique ~~issues~~ challenges related to incarcerating death row inmates and offenders who are female, juvenile, special needs, and non-heterosexual identity ~~offenders, and death row inmates~~.

John Rosen presenting.
- This is Mike McQuiston's proposed revision.
- Mike wanted to add language incorporating people who are non-heterosexual identity.

Committee Comments:
- Kim: Remove the word issues → challenges
- Liz: Move "offenders" up → "incarcerating offenders who are…"
- Jennie: And start with "death row inmates," followed by "and offenders who are…"
- Karin: Maybe change "non-heterosexual identity" to "LGBTQ"?
- Karin: Perhaps even make it "offenders from marginalized groups" (vs. listing them all)? And you might want to separate out death row inmates vs. the other groups.
- Jennie/John: Is there a curriculum update being planned?
- John: Should we just invite Mike to attend /present next time? *Yes, invite him to the 4/24 meeting.*

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.

Dan Cearley presenting.
- He reviewed peer institutions' course outlines /did more research on what's actually being taught.
- He better differentiated 52 & 52L.

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, as well as ~~and~~ plastic and bonded structures.

Committee Comments:
- John: This is a little confusing. Can you clarify? *Dan: Yes, will do*.
- Karin: I would change "and" → "as well as." *Dan concurs*.

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~~ of reciprocating engines.

Committee Comments:
- Liz: #3 edit: for → of. *Dan concurs*.
- Karin: #2 comma – Style choice, be consistent throughout.

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~~ its systems.
2. Explain the process for reciprocating engine inspection and troubleshooting.
3. Summarize ~~Discuss~~ the purpose of engine fire protection systems.

Committee Comments:
- Karin: #3 – Describe or explain or summarize? *Dan: Let's go with "summarize."*
- Liz: #1 – "its" (vs. "propeller" again). *Dan concurs*.

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.

Committee Comments:
- Liz: #1 – "its" (vs. "propeller" again). *Dan concurs*.

AMT 76 (Advanced Powerplants II)
Upon completion of this course, the student should be able to:
1. Summarize ~~Discuss~~ gas turbine engine classification, construction, and nomenclature.
2. Explain gas turbine engine principles, performance, and operation.
3. Describe the procedures for the overhaul, ~~installation, overhaul,~~ inspection, and repair of powerplants, including gas turbine engines ~~and others~~, ~~turboprop engines, and auxiliary power units~~.

Committee Comments:
- Liz: #3 – comma after "inspection." *Dan concurs*.
- Karin: Make "turbine" plural. *Dan concurs*.

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 powerplants including gas turbine engines ~~turboprop engines, and auxiliary power units~~.
3. Install helicopter powerplants.

Committee Comments:
- Jennie: #2 is a lot to assess – does that really work? Or just add an "or"? "Gas turbine engines or other" / no "and" for all the different types of engines.
- Karin: "Powerplants, including gas turbine engines"

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.

Committee Comments:
- Maybe #2 was supposed to replace #1? *All: Yes.*
- Jennie: Are they doing test prep within the course? *Dan: Yes.*

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. Describe ~~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 proper safety protocols for commercial vehicles
4. ~~Demonstrate the safe and proper way to enter and exit the cab of a commercial vehicle.~~
5. ~~Back a tractor and trailer with reasonable proficiency.~~
6. ~~6.~~ 4. Demonstrate reasonable proficiency with maneuvering a tractor-trailer

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. Describe ~~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 proper safety protocols for commercial vehicles
4. ~~Back a tractor and trailer with reasonable proficiency.~~
5. ~~5.~~ 4. Demonstrate reasonable proficiency with maneuvering a tractor-trailer

Brian Hagopian presenting.
- Difference between the 2: The first certificate does not have the lab class w/ the practice. The goals are the same whether they take that class or not. First cert: They're still doing the driving. Second one: Extra lab for them to practice. Students can just take the extra lab class. This is the way that Yellow wanted it to be.

Committee Comments:
- #1: How about "explain" or "describe"? *Brian likes "describe."*
- Jennie: For mapping – are the 3 courses listed above the only 3 courses for these certs? *Brian*: *Yes. #1 & #2 map; and #3 is part of the pre-trip inspection; but #4 is not*. She doesn't see how they all get assessed.
  > John: Which course does that get covered in? *Brian: Both.*
  > Jennie: Is this really a program-level outcome? It reads more like a CSLO – John concurs.
  Brian: #3 is very important; and #4 is something that everyone has to know – they are paramount.
  > Jennie: Then you may want to add a CSLO to that extent that feeds up to the PSLO, the trailer one.
  > John: It's about the operation of a truck (tractor-trailer maneuvering).

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.

Dan Cearley presenting.
- #3 is all about skills; the PSLOs are just broad enough.

Committee Comments:
- Jennie: "Airworthy standards" and "safety methods" are different? *Dan: Yes, they need to be safe in their job /performing that task.*
- Liz: *I will update CNET accordingly*.

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
- Jennie was checking on the timing of CNET Meta implementation.
  > Liz talked about the budget approval and minimum turnaround per the vendor (6+ months), stay tuned – we likely will not know until the new VP of Academic Services starts their new position.
- Kim was double-checking on the number of years of service for Committee members.

Adjournment by John Rosen at 4:10 pm
Next Regular Meeting: April 24, 2023 (Rm 2450)