

Powerplant Certificate Program Outcomes

1. Pass FAA exams. (SLO 1.2, 4.1 & 7.2)
2. Consistently follow EPA guidelines, shop and personal safety standards set by industry. (SLO 6.4, 6.5 & 7.2)
3. Measure weights, temperatures, and speeds. (SLO 2.2 & 2.3)
4. Locate and interpret data in manufacturers' technical manuals. (SLO 7.1)
5. Explain terms, processes and systems related to aircraft. (SLO 1.2)
6. Demonstrate ability to follow correct troubleshooting procedures. (SLO 7.2)
7. Demonstrate ability to run-up, move and tie-down an aircraft. (SLO 5.1)
8. Repair generators, alternators, motors, magnetos, and other aircraft units. (SLO 5.1 & 7.2)
9. Operate and maintain powerplant reciprocating engines and gas turbine engines. (SLO 7.1)
10. Diagnose, repair, replace and overhaul powerplants. (SLO 4.1)
11. Apply electrical and magnetic theories and interpret schematics using meters and testing equipment for troubleshooting power plant electrical systems. (SLO 5.1 & 7.1)
12. Inspect aircraft for conformity and airworthiness in accordance with FAA and manufacturer's documentation. (SLO 4.1 & 7.2)
13. Demonstrate ability to effectively work independently and in groups. (SLO 3.1)
14. Demonstrate work ethic and responsibility appropriate to the industry. (SLO 6.4)

Airframe Certificate Program Outcomes

1. Pass FAA exams. (SLO 1.2, 4.1 & 7.2)
2. Consistently follow EPA guidelines, shop and personal safety standards set by industry. (SLO 6.4, 6.5 & 7.2)
3. Measure weights, temperatures, and speeds. (SLO 2.2 & 2.3)
4. Locate and interpret data in manufacturers' technical manuals. (SLO 7.1)
5. Explain terms, processes and systems related to aircraft. (SLO 1.2)
6. Demonstrate ability to follow correct troubleshooting procedures. (SLO 7.2)
7. Demonstrate ability to use standard tools and materials common for structural repairs including composites. (SLO 5.1 & 6.5)
8. Form, heat-treat and fabricate metal and composite structures and install common fasteners in metal and composites. (SLO 5.1)
9. Apply electrical and magnetic theories and interpret schematics using meters and testing equipment for troubleshooting airframe electrical systems. (SLO 5.1 & 7.1)
10. Inspect airframes for conformity and airworthiness in accordance with FAA and manufacturer's documentation. (SLO 4.1 & 7.2)
11. Demonstrate ability to effectively work independently and in groups. (SLO 3.1)
12. Demonstrate work ethic and responsibility appropriate to the industry. (SLO 6.4)

Aeronautical Technology Degree (AAS, AAS-T) Program Outcomes

1. Pass FAA exams. (SLO 1.2, 4.1 & 7.2)
2. Consistently follow EPA guidelines, shop and personal safety standards set by industry. (SLO 6.4, 6.5 & 7.2)
3. Measure weights, temperatures, and speeds. (SLO 2.2 & 2.3)
4. Locate and interpret data in manufacturers' technical manuals. (SLO 7.1)
5. Explain terms, processes and systems related to aircraft. (SLO 1.2)
6. Demonstrate ability to follow correct troubleshooting procedures. (SLO 7.2)
7. Demonstrate ability to use standard tools and materials common for structural repairs including composites. (SLO 5.1 & 6.5)
8. Form, heat-treat and fabricate metal and composite structures and install common fasteners in metal and composites. (SLO 5.1)
9. Demonstrate ability to run-up, move and tie-down an aircraft. (SLO 5.1)
10. Repair generators, alternators, motors, magnetos, and other aircraft units. (SLO 5.1 & 7.2)
11. Operate and maintain aircraft powerplant reciprocating engines and gas turbine engines. (SLO 7.1)
12. Diagnose, repair, replace and overhaul power plants. (SLO 4.1)
13. Apply electrical and magnetic theories and interpret schematics using meters and testing equipment for troubleshooting airframe and power plant electrical systems. (SLO 5.1 & 7.1)
14. Inspect aircraft for conformity and airworthiness in accordance with FAA and manufacturer's documentation. (SLO 4.1 & 7.2)
15. Demonstrate the ability to read manuals at industry standards (SLO 1.1 & 6.1)
16. Demonstrate industry applied technical writing skills including log books (SLO 1.2 & 6.3)
17. Demonstrate ability to effectively work independently and in groups. (SLO 3.1)
18. Demonstrate work ethic and responsibility appropriate to the industry. (SLO 6.4)
19. Demonstrate computational abilities by applying industry standards of embedded mathematics (SLO 3.1 & 3.2)