AIRCRAFT INSPECTIONS
Course Syllabus

Course Number: TRAM-2104
OCAS Code: None
Course Length: 84 Hours
Career Cluster: Transportation, Distribution & Logistics
Career Pathway: Aviation Maintenance Technology
Career Major(s): Airframe Mechanic

Pre-requisite(s): Students will perform airframe inspections and conformity inspections along with in-depth records review. Students will perform proper logbook entries and form 337 in accordance with FAA regulations.

Textbooks:
Dale Crane, Dictionary of Aviation Terms, Aviation Supplies and Academics, 1997
DOT, Aircraft Inspection and Repair, Jeppesen, Sanders, Inc., 1998

Course Objectives:

A. Lesson: INSPECTION PROCEDURES
1. Define terms related to aircraft inspection.
2. Identify aircraft maintenance publications, maintenance records, and inspection records pertaining to aircraft inspection.
3. Explain the purpose of aircraft inspections.
4. Discuss inspections required by the FAA. (AF-G6,G7)
5. Describe the scope of a 100-hour or annual inspection performed in accordance with FAR Part 43.
6. Discuss other applicable FAR's pertaining to aircraft inspection.
7. Explain practices and procedures used in the pre-inspection preparation of a 100-hour or annual inspection. (AF-G8,G9)
9. Discuss practices and procedures used in performing a 100-hour or annual inspection.
10. § Perform aircraft conformity inspections. (Level 3) (App. C,I,D,13,G,28) (AF-G5) (Gen-I14)
11. § Perform airframe 100-hour airworthiness directive compliance inspection. (Level 3) (App. C,I,D,13,G,28) (GEN-I9,I13,K6)
13. § Perform the post-inspection portion of a 100-hour or annual inspection. (Level 3) (App. C,I,G,28) (AF-G4)(Gen-I10,I11,I18)

B. Lesson: DEMONSTRATE OKLAHOMA DEPARTMENT OF CAREER AND TECHNOLOGY EDUCATION PROGRAM COMPETENCY REQUIREMENTS.
Teaching Methods: The class will primarily be taught by the lecture and demonstration method and supported by various media materials to address various learning styles. There will be question and answer sessions over material covered in lecture and media presentations. Supervised lab time is provided for students to complete required projects.

Grading Procedures: 1. Students are graded on theory and shop practice and performance. 2. Each course must be passed with seventy (70%) percent or better. 3. Grading scale: A=90-100%, B=80-89%, C=70-79%, F=0-69%.

Description of Classroom, Laboratories, and Equipment: Tulsa Technology Center campuses are owned and operated by Tulsa Technology Center School District No. 18. All programs provide students the opportunity to work with professionally certified instructors in modern, well-equipped facilities.

Available Certifications/College Credit: The student may be eligible to take state, national or industry exam after completion of the program. College credit may be issued from Oklahoma State University-Okmulgee or Tulsa Community College. See program counselor for additional information.

College Credit Eligibility: The student must maintain a grade point average of 2.0 or better.