AVIATION WEATHER
Course Syllabus

Course Number: PPGS-A1035
OCAS Code: None
Course Length: 75 Hours
Career Cluster: Transportation, Distribution & Logistics
Career Pathway: Pilot
Career Major(s): Private Pilot (Ground School)

Pre-requisite(s):

Course Description: In this course, students will learn that a fundamental understanding of meteorology is crucial for pilots. Despite advances in computerized forecasting methods, there are still limits to the accuracy of predictions because of our ever changing atmosphere. It is important that student pilots learn to decipher a multitude of printed reports and forecasts when planning a flight, because challenging, even hazardous weather conditions can develop that impact aircraft operation, as well as estimated time of arrival.

Jeppesen Private Pilot Maneuvers
Airmens' Information Manual

Course Objectives:

A. Basic Weather Theory
1. Atmospheric conditions
2. Wind patterns

B. Weather Patterns
1. Atmospheric stability
2. Clouds and fog
3. Precipitation
4. Air masses

C. Weather Hazards
1. Thunderstorms
2. Categories of turbulence
3. Wind shear
4. Icing
5. Restrictions to visibility

D. Interpreting Weather Data
1. Weather forecasts
2. Compiling and processing weather data
3. Printed weather reports
4. Printed weather forecasts
5. Graphic reports
6. Graphic forecasts
7. Preflight weather sources
8. In-flight weather sources
AVIATION WEATHER

TTC objectives

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%, D=60-69%, F=50-59%.

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.