

1. Core Performance for Career pathway

Transportation Systems/Infrastructure Planning, Management, and Regulations.

Develop conclusion for mishap cause and formulate correction actions.

2. Scenario Problem Statement

You are an aircraft mishap investigator for the National Transportation Safety Board. A Cessna 152 has crashed with the lone soul on board a fatality. You are to determine the cause of the mishap and suggest corrective actions to prevent recurrence.

3. Required Materials and Resources

In performing his scenario, students will be access to:

- Cessna 152 aircraft
- Witness statements
- Pilot medical file
- Pilot logbook
- Aircraft maintenance records
- Weather reports
- Aircraft mishap investigation kit
- Material factors
- Transportation (bus) cost to work site
- Computer and internet access
- Computer with word-processing/presentation capability

4. Performance Elements and Products, Processes and Assessment Criteria.

Performance Elements (Required and Additional):

- Obtain all statements from witnesses
- Obtain all personal medical information on the pilot
- Obtain the pilot's logbook and any documentation of pilot's experience
- Determine the sequence of events for the mishap
 - flight plan
 - Contacts with ATC personnel
- Obtain local weather data at the time of the mishap

Student Products, Processes and Assessment Criteria (including Written Report and Presentation):

Product:

Written Report:

Process:

Students will use established methods / procedures in identifying mishap cause and all possible corrective actions.

student completed the project in the required time.

5. Related Knowledge and skills and Assessment Approaches.

Related Knowledge and Skills - Required and Additional

Use all provided information and simulation to identify mishap cause and formulate corrective actions to prevent reoccurrence.

Assessment Approaches:

Student problems / exercises.

6. Module / Unit Plan.

Module / Unit	Module / Unit Objectives: * Performance Elements * Knowledge and Skills * Related Academics / Workplace Skills (May refer to your state standards, snyder's Taxonomy, V-TECS etc	Assessment Approaches
1. Introduction to basic aircraft Flight fundamentals	Describe and explain the operation of an aircraft in flight	Student quiz and exercises
2. Introduction to basic aircraft systems	Describe and explain the operation of systems required for safe flight	Student problems and exercises
3. Introduction to Mishap Investigation Techniques	Describe and explain mishap Mishap investigation techniques	Students exercises
4. Introduction to human factors in aviation Psychology and Physiology	Describe and explain human factors in aviation Psychology and Physiology	Students exercises
5. Introduction to the mishap investigation process	Describe and explain the steps in mishap investigation process	Student problems