

Overview

Multi-choice test that measures the knowledge of flight mechanics, space dynamics, aerodynamics, structures and propulsion.

Relevant Job Roles

Aeronautical Engineer, Aviation Inspectors, Aerospace Stress Engineer, Flight Test Engineer

Details

Language

English (US)

Average Testing Time (minutes)

10 minutes

Allowed Time (minutes)

15 minutes

Maximum Number of Questions

15 questions

Number of Sittings

One

Test Type

Multiple Choice - CTT

Sector

Engineering

Scores Reported

- Overall Score
- Flight and Space Mechanics
- Aerodynamics
- Aircraft Structures and Propulsion

O*NET Competency

Engineering and Technology

Knowledge, Skills, Abilities And Competencies Measured

The following areas are covered:

- Fundamentals of fluid mechanics
- Airfoil and wing theory
- Compressible and viscous flows
- Flight vehicle structures
- Stress and strain analysis of aircraft structures
- Structural dynamics
- Aircraft performance
- Aircraft static stability
- Aircraft dynamic stability and response
- Thermodynamics of aircraft engines
- Rigid body dynamics
- Satellite operations