

Exam Title: 1800310 Aerospace 2

Courses Assessed by this Exam: Aerospace 2

Key Vocabulary: mesosphere, troposphere, stratosphere, thermosphere, lapse time, sublimation, relative humidity, dew point, precipitation, condensation, Rawinsondes, weather balloons, radar, Nano computers, satellites, intercontinental rockets, airfoil, wing, camber, struts, thrust, gravity, drag, atmospheric pressure, respiratory system, circulatory system, olfactory, auditory, speed, velocity, aircraft airfoil, fuselage, wings, ailerons, loadmaster, restating, acknowledging, clarifying, framing, Impromptu speaking, Extemporaneous Speaking, Manuscript reading, memorizing, Maslow's Hierarchy of Needs, Self-actualization, Esteem, Physiological, Love/Belonging, Tuckman's model of team development, Norming, Performing, Forming, Storming,

Student Tasks:

- Know the composition of Earth's atmosphere
- Be able to distinguish between the different layers of the Earth's atmosphere
- Understand the processes of condensation and precipitation
- Be familiar with common weather instruments and their uses
- Understand the key components an airplane and their functions
- Be able to differentiate between the various forces and variables that act on an airplane
- Be familiar with how altitude affects specific body systems
- Identify the different listening techniques as they pertain to aerospace
- Be familiar with the broad categories of questions
- Know and be able to explain the six steps of the writing checklist
- Know the multiple parts of the thinking process
- Know the common methods of presentation
- Define character, attitude, personality, disposition, loyalty, humility, integrity, and character.
- Understand Maslow's Hierarchy of Needs
- Identify and explain characteristics of an effective team
- Understand Tuckman's model of team development
- Define mutual respect, mutual communication, personal respect, and diversity
- Be familiar with the categories of problems that groups face and common signs of problems
- Define consensus and its benefits
- Identify the qualities of effective teams
- Identify the qualities of effective leaders
- Identify the qualities of effective goal statements and goal setting