

Standards Correlations

Aircraft Pilot Training I (8731, 36 weeks/140 hours)

Task	SOL Correlations
Demonstrating Personal Qualities and Abilities	
Demonstrate creativity and innovation.	English: 6.1, 6.3, 6.4, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.7, 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 8.2, 8.4, 8.6, 8.7, 8.11, 8.12, 8.17, 8.18, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, AII.9, COM.1, COM.3, COM.4, COM.5, COM.8, DM.7, DM.1*, DM.10, DM.2*, DM.3*, PS.3*, PS.4*, PS.7*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1
Demonstrate critical thinking and problem solving.	English: 6.1, 6.3, 6.4, 6.5, 6.6, 6.7, 6.9, 7.1, 7.3, 7.4, 7.5, 7.6, 7.7, 7.9, 8.1, 8.3, 8.4, 8.5, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WG.4, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.3, 6.4, 6.5, 6.6, 6.10, 6.11, 7.2, 7.3, 7.8, 7.12, 7.13, 8.2, 8.4, 8.8, 8.9, 8.10, 8.11, A.8, A.9, G.1, G.13, G.14, AFDA.3, AFDA.5, AFDA.8, AII.9, AII.10, AII.11, COM.1, COM.3, COM.4, COM.5, COM.8, DM.4, DM.7, DM.1*, DM.2*, DM.3*, DM.9*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PS.1
Demonstrate initiative and self-direction.	English: 6.1, 6.4, 6.6, 6.7, 6.9, 7.1, 7.4, 7.6, 7.7, 7.9, 8.1, 8.4, 8.6, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1
Demonstrate integrity.	English: 6.1, 7.1, 8.1, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1
Demonstrate work ethic.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1
Demonstrating Interpersonal Skills	
Demonstrate conflict-resolution skills.	English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.4, 8.6, 8.7, 8.9, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, VUS.1

Task	SOL Correlations
Demonstrate listening and speaking skills.	English: 6.1, 6.2, 6.4, 6.6, 7.1, 7.2, 7.4, 7.6, 8.1, 8.2, 8.4, 8.6, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1
Demonstrate respect for diversity.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, USII.9, VUS.1, VUS.13, WG.1, WHI.1, WHII.1
Demonstrate customer service skills.	English: 6.1, 6.4, 6.7, 7.1, 7.4, 7.7, 8.1, 8.4, 8.7, 9.1, 9.5, 9.6, 10.1, 10.5, 10.6, 11.1, 11.5, 11.6, 12.1, 12.5, 12.6 History and Social Science: CE.1, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1
Collaborate with team members	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.3, CE.4, GOVT.1, GOVT.16, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1
Demonstrating Professional Competencies	
Demonstrate big-picture thinking.	English: 6.1, 6.4, 7.1, 7.4, 8.1, 8.4, 9.1, 9.5, 10.1, 10.5, 11.1, 11.5, 12.1, 12.5 History and Social Science: CE.1, CE.4, CE.12, GOVT.1, GOVT.15, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1
Demonstrate career- and life-management skills.	English: 6.1, 6.7, 7.1, 7.7, 8.1, 8.7, 9.1, 9.6, 10.1, 10.6, 11.1, 11.6, 12.1, 12.6 History and Social Science: CE.1, CE.4, CE.12, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 8.4
Demonstrate continuous learning and adaptability.	English: 6.1, 6.4, 6.7, 6.9, 7.1, 7.4, 7.7, 7.9, 8.1, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.1, 11.5, 11.6, 11.8, 12.1, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.3, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: BIO.1, CH.1, LS.1, PH.1, PH.4, PS.1
Manage time and resources.	English: 6.1, 6.2, 6.4, 6.7, 6.9, 7.1, 7.2, 7.4, 7.7, 7.9, 8.1, 8.2, 8.4, 8.7, 8.9, 9.1, 9.5, 9.6, 9.8, 10.1, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.11, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 6.12, 7.2, 7.3, 7.8, 7.9, 7.10, 7.11, 7.12, 7.13, 8.4, 8.11, 8.12, 8.13, 8.14, 8.17, 8.18, A.4, A.5, A.8, A.9, AFDA.3, AFDA.4, AFDA.5, AFDA.6, AFDA.7, AFDA.8, COM.1, COM.3, COM.5, COM.8
Demonstrate information-literacy skills.	English: 6.1, 6.2, 6.4, 6.6, 6.7, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.9, 9.2, 9.5, 9.6, 9.8, 10.2, 10.5, 10.6, 10.8, 11.2, 11.5, 11.6, 11.8, 12.2, 12.5, 12.6, 12.8 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.8, 7.9, 8.11, 8.12, A.8, A.9, AFDA.3, AFDA.4, AFDA.6, AFDA.7, AFDA.8, DM.8, PS.1*, PS.2*, PS.3*, PS.4*, PS.7*, PS.8*, PS.9*, PS.10* Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1
Demonstrate an understanding of information security.	English: 6.1, 6.2, 6.3, 6.4, 6.6, 6.7, 6.8, 6.9, 7.1, 7.2, 7.3, 7.4, 7.6, 7.7, 7.8, 7.9, 8.1, 8.2, 8.3, 8.4, 8.6, 8.7, 8.8, 8.9, 9.1, 9.2, 9.5, 9.6, 9.8, 10.1, 10.2, 10.5, 10.6, 10.8, 11.1, 11.2, 11.5, 11.6, 11.8, 12.1, 12.2, 12.5, 12.6, 12.8

Task	SOL Correlations
	History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: COM.10
Maintain working knowledge of current information-technology (IT) systems.	English: 6.1, 6.3, 6.4, 6.6, 6.9, 7.1, 7.3, 7.4, 7.6, 7.9, 8.1, 8.3, 8.4, 8.6, 8.9 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 7.8, COM.1, COM.2, COM.7, COM.9, COM.10, COM.11, COM.16, COM.18, PS.17 Science: BIO.1, CH.1, ES.1, PH.1
Demonstrate proficiency with technologies, tools, and machines common to a specific occupation.	History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.10, 6.11, 7.9, 8.4, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AII.4, AII.7, AII.9, COM.1, COM.7, COM.10, COM.11, COM.12, COM.16 Science: CH.1, ES.1, LS.1, PH.1, PS.1
Apply mathematical skills to job-specific tasks.	English: 6.4, 6.6, 6.7, 7.4, 7.6, 7.7, 8.4, 8.6, 8.7, 9.5, 9.6, 10.5, 10.6, 11.5, 11.6, 12.5, 12.6 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Mathematics: 6.1, 6.2, 6.5, 6.6, 6.12, 6.13, 6.14, 7.1, 7.2, 7.3, 7.4, 7.5, 7.6, 7.8, 7.9, 7.11, 7.12, 7.13, 8.4, 8.5, 8.6, 8.8, 8.9, 8.10, 8.11, 8.12, 8.13, 8.14, 8.15, 8.16, 8.17, 8.18, A.1, A.3, A.4, A.5, A.7, A.8, A.9, AFDA.1, AFDA.3, AFDA.5, AFDA.8, AII.3, AII.7, AII.9, AII.10, COM.1, COM.7 Science: 6.1, BIO.1, CH.1, ES.1, LS.1, PH.1, PS.1
Demonstrate professionalism.	English: 6.1, 7.1, 8.1, 9.1, 10.1, 11.1, 12.1 History and Social Science: CE.1, CE.4, CE.14, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1
Demonstrate reading and writing skills.	English: 6.1, 6.6, 6.7, 7.1, 7.6, 7.7, 8.1, 8.6, 8.7, 9.1, 9.5, 9.6, 9.7, 10.1, 10.5, 10.6, 10.7, 11.1, 11.5, 11.6, 11.7, 12.1, 12.5, 12.6, 12.7 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: 6.1, PH.1, PS.1
Demonstrate workplace safety.	English: 6.4, 7.4, 8.4, 9.5, 10.5, 11.5, 12.5 History and Social Science: CE.1, CE.4, GOVT.1, USI.1, USII.1, VUS.1, WG.1, WHI.1, WHII.1 Science: CH.1
Examining All Aspects of an Industry	
Examine aspects of planning within an industry/organization.	History and Social Science: GOVT.16
Examine aspects of management within an industry/organization.	
Examine aspects of financial responsibility within an industry/organization.	

Task	SOL Correlations
Examine technical and production skills required of workers within an industry/organization.	
Examine principles of technology that underlie an industry/organization.	
Examine labor issues related to an industry/organization.	History and Social Science: GOVT.16
Examine community issues related to an industry/organization.	History and Social Science: GOVT.16
Examine health, safety, and environmental issues related to an industry/organization.	History and Social Science: GOVT.16
Addressing Elements of Student Life	
Identify the purposes and goals of the student organization.	
Explain the benefits and responsibilities of membership in the student organization as a student and in professional/civic organizations as an adult.	
Demonstrate leadership skills through participation in student organization activities, such as meetings, programs, and projects.	
Identify Internet safety issues and procedures for complying with acceptable use standards.	
Exploring Work-based Learning	
Identify the types of work-based learning (WBL) opportunities.	
Reflect on lessons learned during the WBL experience.	

Task	SOL Correlations
Explore career opportunities related to the WBL experience.	
Participate in a WBL experience, when appropriate.	

Task	SOL Correlations
Exploring Flying	
Describe classifications, equipment, and operating requirements related to aircraft.	English: 10.5, 11.5
Describe Federal Aviation Administration (FAA) aircraft classification.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describe pilot certification requirements and certificate privileges and limitations.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describe regulations related to student pilot and other endorsements.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describe regulations related to medical certificates.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describe privileges and limitations of pilot certificates.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describe pilot currency requirements.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Explain compliance with local regulations.	English: 10.5, 11.5 History and Social Sciences: VUS.14

Task	SOL Correlations
Describe regulations related to a certificate of waiver.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describe regulations related to knowledge and skill test checks.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describe the role of the National Transportation Safety Board (NTSB).	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describe regulations related to alcohol and drugs.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describing Aircraft Construction	
Identify the parts of an aircraft.	English: 10.5, 11.5
Describe limiting factors in various aircraft designs.	English: 10.5, 11.5
Explaining Principles of Flight	
Explain the principles behind the production of lift.	English: 10.5, 11.5 Mathematics: AII.3, MA.7 Science: PH.2, 3
Describe airfoil, center of pressure, and mean camber line.	English: 10.5, 11.5
Explain airspeed, air density, lift, and drag as related to the aircraft.	English: 10.5, 11.5 Mathematics: AII.3, MA.7 Science: PH.2, 3
(Optional) Explain airfoil design, pressure distribution, and the effects of altitude.	English: 10.3, 10.5, 11.3, 11.5

Task	SOL Correlations
Explaining the Aerodynamics of Flight	
Describe the aerodynamic forces acting on an aircraft during flight.	English: 10.5, 11.5 Mathematics: AII.3, MA.7 Science: PH.2, 3
Explain center of gravity (CG) as it relates to aircraft.	English: 10.5, 10.8, 11.5, 11.8 Science: PH.2, 3
Describe the three axes of an aircraft.	English: 10.5, 11.5
Define <i>longitudinal stability</i> .	English: 10.3, 10.5, 11.3, 11.5 History and Social Sciences: WHII.1, VUS.1
Explain stability and controllability.	English: 10.5, 11.5
Describe types of static stability related to aircraft.	English: 10.5, 11.5
Explain characteristics, forces, and principles related to the AOA.	English: 10.5, 11.5
Explain lift-to-drag (L/D) ratio.	English: 10.5, 11.5 Mathematics: AII.3, MA.7 Science: PH.2
Explain load factor.	English: 10.3, 10.5, 11.3, 11.5 Mathematics: AII.3
Describe aerodynamic stall.	English: 10.3, 10.5, 11.3, 11.5
Explain torque effect.	English: 10.3, 10.5, 11.3, 11.5

Task	SOL Correlations
Outline the aerodynamics of spin.	English: 10.5, 10.6, 11.5, 11.6
Outline the process of a spin entry and a spin recovery.	English: 10.5, 10.6, 11.5, 11.6
Explain ground effect on aircraft performance.	English: 10.5, 11.5
Describe the operation of a propeller.	English: 10.5, 11.5 Science: PH.2
Describing Flight Controls	
Describe aircraft flight controls.	English: 10.5, 11.5
Describe surfaces that affect longitudinal stability or control.	English: 10.5, 11.5 History and Social Sciences: WHII.1, VUS.1
Describe the purpose and operation of wing spoilers.	English: 10.5, 11.5
Understanding Aircraft Systems: Fuel Systems	
Describe the fuel system.	English: 10.5, 11.5
Describe the types of fuel used in aviation.	English: 10.5, 11.5
Describe detonation in aircraft engines.	English: 10.5, 11.5
Describe the fuel-air mixture.	English: 10.5, 11.5
Identify fuel safety practices.	English: 10.5, 10.8, 11.5, 11.8
(Optional) Explain the fuel-dump system.	English: 10.5, 11.5
Describe concerns related to fuel system malfunctions and leaks.	English: 10.5, 11.5
Describe fuel-load concerns.	English: 10.5, 11.5

Task	SOL Correlations
Describe regulations related to fuel requirements.	English: 10.5, 11.5
Understanding Aircraft Systems: Engines	
Explain various powerplants.	English: 10.5, 11.5
Describe the reciprocating engine cycle.	English: 10.5, 11.5
Describe cooling systems for the reciprocating engine.	English: 10.5, 11.5
Describe the causes and effects of carburetor ice.	English: 10.5, 11.5
Explain the effects of carburetor heat.	English: 10.5, 11.5
(Optional) Explain turbine engine operation.	English: 10.5, 11.5
(Optional) Explain turboprop engine operation.	English: 10.5, 11.5
Understanding Aircraft Systems: Propellers, Landing Gear, and Brakes	
Describe fixed-pitch propellers.	English: 10.5, 11.5
Compare types of aircraft landing gear.	English: 10.5, 11.5
Describe the aircraft brake system.	English: 10.5, 11.5
Understanding Aircraft Systems: Electrical System	
Describe the aircraft electrical system and circuitry.	English: 10.5, 11.5 Science: PH.8
Describe aircraft batteries.	English: 10.5, 11.5
Identify equipment that depends on the electrical system.	English: 10.5, 11.5

Task	SOL Correlations
Understanding Aircraft Systems: Pressurization System	
(Optional) Explain the aircraft pressurization system.	English: 10.5, 11.5
Describe oxygen requirements.	English: 10.5, 11.5
Understanding Aircraft Systems: Environmental Factors	
Describe anti-icing and de-icing.	English: 10.5, 11.5
Explain environmental control in aircraft.	English: 10.5, 11.5
Describe aircraft lighting.	English: 10.5, 11.5
Describe regulations related to the use of aircraft lights.	English: 10.5, 11.5
Understanding Aircraft Systems: Oil and Hydraulic Systems	
Explain the oil system.	English: 10.5, 11.5
Explain hydraulic systems.	English: 10.5, 11.5
Interpreting Flight Instruments	
Identify gyroscopic aircraft instruments.	English: 10.5, 11.5
Describe indicating systems.	English: 10.5, 11.5
Interpret altimeter readings and settings.	English: 10.5, 11.5
Describe the horizontal situation indicator (HSI).	English: 10.5, 11.5
(Optional) Interpret information on an HSI.	English: 10.5, 11.5
Interpret readings on a turn-and-slip indicator.	English: 10.5, 11.5
Explain airspeed as it relates to aircraft performance.	English: 10.3, 10.5, 11.3, 11.5

Task	SOL Correlations
Explain the effects of temperature and pressure on indicated altitude.	English: 10.5, 11.5 History and Social Sciences: WHII.1, VUS.1
Describe altimeter settings and setting procedures and the importance of accurate altimeters.	English: 10.5, 11.5 History and Social Sciences: WHII.1, 2, 4; VUS.1, 2
Explain the operation of a magnetic compass.	English: 10.5, 11.5 Science: ES.1
Describe the pitot-static system.	English: 10.5, 11.5
Describe an aircraft's pneumatic system.	English: 10.5, 11.5
Describe limits on autopilot usage.	English: 10.5, 11.5
Identifying Aircraft Maintenance Regulations	
Explain airworthiness.	English: 10.5, 10.8, 11.5, 11.8
Describe airworthiness directives (ADs).	English: 10.5, 10.8, 11.5, 11.8
Describe airworthiness certificate issuance and renewal.	English: 10.5, 10.8, 11.5, 11.8 History and Social Sciences: VUS.14
Describe aircraft inspection regulations.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describe regulations related to maintenance records.	English: 10.5, 10.8, 11.5, 11.8 History and Social Sciences: VUS.14
Describe regulations related to maintenance and alteration programs.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describe regulations related to the minimum equipment list (MEL).	English: 10.5, 10.8, 11.5, 11.8

Task	SOL Correlations
	History and Social Sciences: VUS.14
Identifying Safety and Emergency Regulations	
Describe aircraft return-to-service regulations.	English: 10.5, 10.8, 11.5, 11.8 History and Social Sciences: VUS.14
Describe use of aircraft operations checklists.	English: 10.5, 11.5
(Optional) Describe regulations related to cockpit voice and flight data recorders.	English: 10.5, 10.8, 11.5, 11.8 History and Social Sciences: VUS.14
Describe regulations related to safety equipment.	English: 10.5, 10.8, 11.5, 11.8 History and Social Sciences: VUS.14
Describe regulations related to declaration of an emergency.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describe regulations related to dropping objects.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describe regulations related to emergency locator transmitters (ELT).	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describe regulations related to accident reporting.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describe regulations related to individual flotation devices.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Identifying Flight Manuals and Other Documents	

Task	SOL Correlations
Describe the responsibilities of aircraft owners and operators.	English: 10.5, 11.5
Identify documents to be carried on aircraft during flight and the regulations related to their display and inspection.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describe regulations related to instruments and equipment.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describe approach minima.	English: 10.5, 11.5
Describe briefing of passengers.	English: 10.5, 11.5
Describe change-of-address regulations.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describe preflight requirements.	English: 10.5, 10.8, 11.5, 11.8 History and Social Sciences: VUS.14
Describing Aircraft Performance	
Define <i>aerobatic flight</i> .	English: 10.3, 10.5, 11.3, 11.5 History and Social Sciences: VUS.14
Explain steady-state climb and flight.	English: 10.5, 11.5
Describe wake turbulence characteristics and avoidance techniques.	English: 10.5, 11.5
Explain how an aircraft turns.	English: 10.5, 11.5
Describe effects on aircraft performance during a turn.	English: 10.5, 11.5
Explain how ice formation affects aircraft performance.	English: 10.5, 11.5

Task	SOL Correlations
Describe distinct types of altitude related to aircraft.	English: 10.5, 11.5
Describe V-speeds.	English: 10.5, 11.5
Describe how runway conditions affect aircraft operation.	English: 10.5, 11.5
Describe aircraft operating limitations.	English: 10.5, 10.8, 11.5, 11.8 History and Social Sciences: VUS.14
Describe regulations related to minimum safe flight altitude.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describing Airport Operations	
Describe operational procedures for a controlled airport.	English: 10.5, 11.5
Describe operational procedures for an uncontrolled airport.	English: 10.5, 10.8, 11.5, 11.8
Describe information on an airport diagram.	English: 10.5, 11.5 History and Social Sciences: WHII.1, VUS.1
Describe airport markings and signs.	English: 10.5, 11.5
Describe airport lighting.	English: 10.5, 11.5
Describe airport landing indicators.	English: 10.5, 11.5
Describe land and hold short operations (LAHSO).	English: 10.5, 11.5
Describe traffic pattern and communication procedures.	English: 10.5, 11.5
Describe taxi operations and procedures.	English: 10.5, 11.5
Describe airport information broadcasts.	English: 10.1, 10.5, 11.1, 11.5
Identify the types of ATC services.	English: 10.5, 11.5

Task	SOL Correlations
Explain effective radio communication.	English: 10.5, 11.5
Explain regulations related to communications enroute.	English: 10.5, 11.5
Describe runway requirements.	English: 10.5, 11.5
Describe procedures to remedy communications failure.	English: 10.5, 11.5
Understanding Airspace	
Describe VFR.	English: 10.5, 11.5
Describe visual meteorological conditions (VMC).	English: 10.5, 11.5
Differentiate types of airspace.	English: 10.3, 10.5, 11.3, 11.5
Describe operational airspace requirements.	English: 10.5, 11.5
Describe regulations related to destination airport visibility.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describe regulations related to general right-of-way rules.	English: 10.5, 11.5 History and Social Sciences: VUS.14
Describe regulations related to right-of-way rules, water operations.	English: 10.5, 10.8, 11.5, 11.8 History and Social Sciences: VUS.14
Describe regulations related to use of seats, safety belts, and harnesses.	English: 10.5, 10.8, 11.5, 11.8 History and Social Sciences: VUS.14
Describing Navigation	
Describe satellite radio navigation systems (RNAV).	English: 10.3, 10.5, 11.3, 11.5

Task	SOL Correlations
Describe the VHF omnidirectional range navigation system (VOR).	English: 10.3, 10.5, 11.3, 11.5
Describe regulations related to operation near other aircraft.	English: 10.5, 10.8, 11.5, 11.8 History and Social Sciences: VUS.14
Describe operational flight plan requirements.	English: 10.5, 11.5
Describe purpose and scope of the Pilot Operating Handbook (POH).	English: 10.5, 10.8, 11.5, 11.8
Describe pilot deviation reports.	English: 10.5, 11.5