

UNIT PLAN

UNIT 5: OPERATIONS

Discussion topics:	Radio Communications Procedures
Objective:	To determine that the applicant is knowledgeable in radio communication procedures.
Introduce:	The applicant demonstrates understanding of: Airport operations with and without and operating control tower. Common Traffic Advisory Frequency (CTAF) Traffic Advisory Procedures Aeronautical advisory communication station (UNICOM) Automatic Terminal Information Service (ATIS) Aircraft call signs and registration numbers The phonetic alphabet Phraseology: altitudes, directions, speed, and time.
Completion standards:	Demonstrates understanding of Radio Communication Procedures Minimum of 80% on the post test.
References:	AC 107-2; AIM; FAA-H-8083-25; FAA-G-8082-22
Suggested homework assignments:	<ul style="list-style-type: none"> ● Review online video ● Review Remote Pilot Book Chapter 5, Operations ● Review questions assigned
Discussion topics:	Airport Operations
Objective:	To determine that the applicant is knowledgeable in airport operations.
Introduce:	<ul style="list-style-type: none"> ● Types of airports ● ATC Towers ● Runway markings and signage. ● Traffic patterns ● Security Identification Display Areas (SIDA) ● Sources of airport data ● Aeronautical charts ● Chart supplements ● Avoiding bird and wildlife hazards and reporting collisions ● Airport and seaplane base lighting
Review:	<ul style="list-style-type: none"> ● Radio Communication Procedures
Completion standards:	<ul style="list-style-type: none"> ● Demonstrates understanding of Airport Operations ● Minimum of 80% on the post test.

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References:	AC 107-2; 150/5200-32; AIM; FAA-H-8083-5; FAA-G-8082-22
Suggest homework assignments:	<ul style="list-style-type: none"> ● Review online video ● Review Remote Pilot Book Chapter 5, Operations ● Review questions assigned
Discussion topics:	Emergency Procedures
Objective:	To determine that the applicant is knowledgeable in emergency procedures
Introduce:	<ul style="list-style-type: none"> ● Emergency planning and communication ● Characteristics and potential hazards of lithium batteries <ul style="list-style-type: none"> a. Safe transportation such as proper inspection and handling b. Safe charging c. Safe usage d. Risks of fires involving lithium batteries ● Loss of aircraft control ink and fly-aways ● Loss of Global Positioning System (GPS) signal during flight and potential consequences ● Frequency for operations over people ● Procedures for operation at night
Review:	Airport Operations
Completion standards:	<ul style="list-style-type: none"> ● Demonstrates understanding of emergency procedures ● Minimum of 80% on the post test.
References:	AC 107-2; FAA-H-8083-25; FAA-G-8082-22; SAFOs 09013, 10017, 15010
Suggest homework assignments:	<ul style="list-style-type: none"> ● Review online video ● Review Remote Pilot Book Chapter 5, Airport Operations ● Review questions assigned
Discussion topics:	Aeronautical Decision-Making
Objective:	To determine that the applicant is knowledgeable in aeronautical decision-making
Introduce:	<ul style="list-style-type: none"> ● Aeronautical decision-making (ADM) <ul style="list-style-type: none"> a. Effective team communication

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	<ul style="list-style-type: none"> b. Task management • Crew Resource Management (CRM) • Situational awareness • Hazardous attitudes • Hazard identification and risk assessment
Review:	<ul style="list-style-type: none"> • Emergency Procedures
Completion standards:	Demonstrates understanding of aeronautical decision-making (ADM) Minimum of 80% on the post test.
References:	AC 107-2; FAA-H-8083-2; FAA-H-8083-25; FAA-G-8082-22
Suggest homework assignments:	<ul style="list-style-type: none"> • Review online video • Review Remote Pilot Book Chapter 5, Operations • Review questions giving
Discussion topics:	Physiology
Objective:	To determine that the applicant is knowledgeable in Physiology
Introduce:	<ul style="list-style-type: none"> • Physiological considerations and their effects on safety such as dehydration and heatstroke. • Drug and alcohol use • Prescription and over-the-counter medication • Hyperventilation • Stress and fatigue • Factors affecting vision • Fitness for flight • Physiological aspects of night operation • Night illusions
Review:	<ul style="list-style-type: none"> • Aeronautical Decision-Making
Completion standards:	Demonstrates understanding of physiology. Minimum of 80% on the post test.
References:	AC 107-2; FAA-H-8083-2; FAA-H-8083-25; FAA-G-8082-22
Suggest homework assignments:	<ul style="list-style-type: none"> • Review online video • Review Remote Pilot Book Chapter 5, Operations • Review questions giving
Discussion topics:	Maintenance and Inspection Procedures

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Objective:	To determine that the applicant is knowledgeable in sUAS maintenance and inspection procedures.
Introduce:	<ul style="list-style-type: none"> ● Basic maintenance. ● Preflight inspection. ● Techniques to mitigate mechanical failures of all elements used in sUAS operations such as the battery and any device(s) used to operate the sUAS. ● Appropriate record keeping. ● Persons that may perform maintenance on an sUAS. ● Preflight inspection for night operations. ● Manufacturer’s Declaration of Compliance for Category 2 and 3 operations.
Review: Completion standards:	<ul style="list-style-type: none"> ● Operations Over People Demonstrates understanding of regulations. Minimum of 80% on the post test.
References:	AC 107-2; FAA-H-8083-2; FAA-H-8083-25; FAA-G-8082-22
Suggest homework assignments:	<ul style="list-style-type: none"> ● Review online video ● Review Remote Pilot Book Chapter 5, Operations ● Review questions assigned