

1 Essential Flight Training

Basic Aircraft Handling

Objective: Develop stable flight control and ATC communication for EMS missions.

Exercise:

- Take off and climb to 5,000 feet.
- Maintain a steady altitude and heading for 10 minutes.
- Communicate with ATC for practice.
- Perform a smooth approach and landing.

Short Takeoff & Landing (STOL)

Objective: Master landings on short or rough runways. **Exercise:**

- Take off from a short runway using minimal distance.
- Land on a designated short-field area.
- Practice stopping quickly after touchdown.
- Evaluate braking efficiency and touchdown speed.

Water Landings (Seaplanes or Ditching Procedures)

Objective: Learn controlled landings on water. **Exercise:**

- Approach a water body at a safe angle.
- Reduce airspeed and glide onto the surface.
- Perform water exit and aircraft shutdown.
- Discuss emergency floatation measures.

Night & Low-Visibility Operations

Objective: Improve night navigation and approach skills. **Exercise:**

- Take off at dusk or night.
- Fly using the **Nav Menu** instead of direct visuals.
- Approach the runway using altitude and heading indicators.
- Land safely in low visibility conditions.

2 Emergency Landing Training

Engine Failure Landing

Objective: Safely land an aircraft with no engine power. **Exercise:**

- Simulate engine failure at 5,000 feet.
- Identify the best emergency landing area.
- Glide to the chosen location.
- Execute a controlled emergency landing.

Off-Airport Emergency Landings

Objective: Learn to land on non-runway surfaces. **Exercise:**

- Simulate a forced landing over an open field or road.
- Assess terrain conditions and obstacles.
- Perform a soft touchdown.
- Secure the aircraft post-landing.

Forced Landings with Limited Control

Objective: Practice landing with partial aircraft control. **Exercise:**

- Simulate loss of rudder or aileron control.
- Adjust flight path to compensate for control failure.
- Land using only throttle and minor control adjustments.

Crosswind & High-Wind Landings

Objective: Improve landings in extreme wind conditions. **Exercise:**

- Take off with a crosswind component.
- Approach the runway using a crab technique.
- Transition to wing-low technique before touchdown.
- Execute a safe landing despite wind interference.

3 Air & Ground EMS Response Training

Medical Evacuation (MedEvac) Missions

Objective: Conduct fast patient pickup and transport. **Exercise:**

- Respond to a simulated accident site.
- Land, stabilize, and simulate loading a patient.
- Take off quickly and transport to a medical facility.

Ground Vehicle EMS Response

Objective: Coordinate emergency response between air and ground teams. **Exercise:**

- Assign ambulance or ground unit to accident site.
- Communicate between pilots and ground teams.
- Time-efficient patient transport from ground to air.

Search & Rescue (SAR) Operations

Objective: Locate and assist lost or injured individuals. **Exercise:**

- Conduct aerial search patterns over a designated area.
- Spot and mark a distressed individual's location.
- Land or coordinate ground response for extraction.

Multi-Unit EMS Response

Objective: Simulate a major medical emergency requiring multiple aircraft and ground units. **Exercise:**

- Dispatch multiple aircraft to different locations.
 - Coordinate between pilots, ATC, and ground units.
 - Conduct an efficient multi-unit rescue operation.
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4 Helicopter EMS Training

Helicopter Basic Flight Control

Objective: Develop stable hover and maneuvering skills for EMS operations. **Exercise:**

- Take off vertically and hold a hover.
- Practice slow-speed maneuvering and altitude control.
- Perform controlled descents and precision landings.

Helicopter Emergency Landings

Objective: Learn controlled landings in case of an emergency. **Exercise:**

- Simulate an engine failure and autorotate to landing.
- Practice emergency landings on roads, fields, or designated open areas.
- Execute emergency shutdown procedures.

Helicopter Rescue & Hoist Operations

Objective: Simulate patient extractions in difficult terrain. **Exercise:**

- Hover above a designated extraction point.
- Simulate hoisting a patient using ground team coordination.

- Maintain stable hover during the entire rescue operation.
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Final Test & Certification

 **Scenario-Based Emergency Response Objective:** Apply all learned EMS skills in a live scenario. **Exercise:**

- Assign pilots an emergency situation without prior knowledge.
 - Pilots must react, communicate, and complete the rescue mission.
 - Evaluate teamwork, efficiency, and landing precision.
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