



FIRE PROTECTION TRAINING

Procedures Handbook 4300

FIREFIGHTER SAFETY

TOPIC: Helicopter Safety

TIME FRAME: :30

LEVEL OF INSTRUCTION: Level I

BEHAVIORAL OBJECTIVE:

Condition: Given a written quiz

Behavior: The student will confirm a knowledge of the safety hazards, considerations and procedures associated with working around helicopters.

Standard: With a minimum 80% accuracy

MATERIALS NEEDED:

- Writing board with markers/erasers
- Appropriate audio visual equipment and screen
- Video: "Helo Safe" (NFES 2090), NWCG
- Student Information Sheets 4204.5-1 and 4204.5-2

REFERENCES:

- CAL FIRE Aviation Management Handbook 8300
- CAL FIRE Fire Protection Training Handbook 4300
- CAL FIRE Training Procedures Handbook 4000

PREPARATION:

Helicopters are a very valuable tool for ground personnel, especially in the areas of water drops and troop movement. They can save a lot of work, but they are also dangerous. You must know the hazards and the requirements of working around these machines.



FIRE PROTECTION TRAINING

Procedures Handbook 4300

HELICOPTER SAFETY

PRESENTATION	APPLICATION
<p>I. TERMINOLOGY</p> <p>NOTE: Hand out Student Information Sheet 1, Helicopter Diagram</p> <ul style="list-style-type: none">A. Helitack, Fly crewB. Helicopter, CopterC. Helibase, Helispot, Helitack BaseD. Helicopter Coordinator, Helibase Manager, Helispot ManagerE. Main rotor, tail rotorF. SkidsG. Seat belts and shoulder harness <p>II. USE</p> <ul style="list-style-type: none">A. Reconnaissance, mapping (recon)B. Crew transportation (air lift)C. Evacuation, search, rescueD. Water dropsE. HelitorchF. Sling loads	<p>Video: "Helo Safe"</p>



FIRE PROTECTION TRAINING

Procedures Handbook 4300

HELICOPTER SAFETY

PRESENTATION

APPLICATION

III. SAFETY

NOTE: Hand out Student Information Sheet 2, Be Alert and Stay Alive Around Helicopters

- A. Crew transport operations – when approaching or departing aircraft
 - 1. Follow instructions of the helicopter crew to the letter
 - 2. Get the pilot's attention and permission before approaching the helicopter
 - 3. Always approach or depart in a crouched position. Gusts of wind could cause the rotor blades to dip dangerously low to the ground
 - 4. Always approach so that you are in full view of the pilot, never from the rear of the helicopter
 - 5. Safety helmet will be secured with chin strap
 - a) If no chin strap, your safety helmet will be held securely in your hand to prevent it from being blown away and/or up into the rotors by the rotor blast
 - 6. Never approach or depart a helicopter from ground that is up-slope from the main rotor. When turning at a high speed or under bad lighting conditions, rotors are almost invisible
 - 7. Keep clear of the main and tail rotors at all times. Do not walk to rear of helicopter when entering or exiting
 - 8. Carry all long handled tools in such a manner that the handles will not be inadvertently raised into the rotor path
- B. Working or waiting around a helispot



FIRE PROTECTION TRAINING

Procedures Handbook 4300

HELICOPTER SAFETY

PRESENTATION	APPLICATION
<ul style="list-style-type: none">1. Stay at least 100 feet from helicopters at all times<ul style="list-style-type: none">a) Unless you have a specific job that requires otherwiseb) Your presence can cause confusion and disrupt the pilot's concentration2. Do not face the landing or departing helicopter unless you are wearing goggles3. Do not remain in an area that is constantly under the flight path of any helicopter4. No smoking within 50 feet of the helicopter or fueling areaC. In-flight safety<ul style="list-style-type: none">1. No smoking in the helicopter2. Use the seat belt and keep it secured until the pilot instructs you to leave the helicopter3. Make sure all loose gear is held securely to prevent from being blown from the helicopter4. Never slam the doors of a helicopter<ul style="list-style-type: none">a) Door handles must be turned to close and secure5. Do not let any of your gear get in the way of the pilot or controls6. Never throw ANYTHING out of a helicopter7. Do not talk to the pilot unless necessary, particularly during take-off and landing	



FIRE PROTECTION TRAINING

Procedures Handbook 4300

HELICOPTER SAFETY

PRESENTATION	APPLICATION
<p>D. Hazards</p> <ol style="list-style-type: none">1. Water drops<ol style="list-style-type: none">a) Can be up to 2000 Gallonsb) If you can't exit drop area, assume drop position<ol style="list-style-type: none">1) Lie facedown, head toward drop, hand on helmet, hand on tool, away from trees2. Sling loads<ol style="list-style-type: none">a) Stay away from flight path	<p>Administer Topic Quiz</p>



FIRE PROTECTION TRAINING

Procedures Handbook 4300

HELICOPTER SAFETY

SUMMARY:

Helicopters are a valuable tool for firefighters. A safe working knowledge is necessary to prevent serious injury to firefighting personnel operating near helicopters.

EVALUATION:

The student will complete a written quiz at a time determined by the instructor.

ASSIGNMENT:

Review your notes and Student Information Sheets in preparation for the upcoming quiz. Study for the next session.