



Standard Guide for Helicopter Inland Search and Rescue (SAR) Technician¹

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1. Scope

1.1 This guide establishes the minimum training standard for a helicopter inland search and rescue technician (hereafter known as Helicopter SAR Technician) with focus on the general, field, and search and rescue specific knowledge, skills, and abilities needed to function as a member of the crew with a helicopter in support of an inland search and rescue operation.

1.2 This guide is focused on inland, non-oceanic areas of operation, including flood and swiftwater rescue operations.

1.3 This guide is focused on persons functioning as a crewmember with helicopters only; no fixed-winged operations are included.

1.4 General, field, and search and rescue specific knowledge and skills related to inland search and rescue are found in the following referenced ASTM documents: **F1591**, **F1633**, **F1739**, **F1846**, **F2209**, **F2685**, and **F2751**. The training identified in this guide supplements and enhances the search and rescue technician's existing training, knowledge, and skills.

1.5 *This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.*

2. Referenced Documents

2.1 ASTM Standards:²

F1591 Practice for Visual Signals Between Persons on the Ground and in Aircraft During Ground Emergencies

F1633 Guide for Techniques in Land Search

F1739 Guide for Performance of a Water Rescuer—Level I

F1846 Practice for Symbols and Markings for Use With Land Search Maps

¹ This test method is under the jurisdiction of ASTM Committee F32 on Search and Rescue and is the direct responsibility of Subcommittee F32.03 on Personnel, Training and Education.

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² For referenced ASTM standards, visit the ASTM website, www.astm.org, or contact ASTM Customer Service at service@astm.org. For *Annual Book of ASTM Standards* volume information, refer to the standard's Document Summary page on the ASTM website.

F2209 Guide for Training of Level I Land Search Team Member

F2685 Guide for Training of a Land Search Team Leader (STL)

F2751 Guide for Training of Support Level Land Rescue Team Member (LRT-Support) Member

3. Terminology

3.1 Acronyms:

3.1.1 *AGL*—Above Ground Level

3.1.2 *AHJ*—Authority Having Jurisdiction

3.1.3 *ANVIS*—Aviator's Night Vision Imaging System

3.1.4 *CRM*—Crew Resource Management

3.1.5 *FLIR*—Forward Looking Infra-Red

3.1.6 *HEED*—Helicopter Emergency Egress Device

3.1.7 *HELP*—Heat Escape Lessening Posture

3.1.8 *HS*—HeliSpot

3.1.9 *HUET*—Helicopter Underwater Egress

3.1.10 *LZ*—Landing Zone

3.1.11 *PCDS*—Personnel Carrying Device System

3.1.12 *PFD*—Personal Flotation Device

3.1.13 *PPE*—Personal Protective Equipment

3.1.14 *SAR*—Search and Rescue

3.2 Definitions of Terms Specific to This Standard:

3.2.1 *altitude, n*—the height expressed in units of distance above a reference plane, usually above mean sea level or above ground level.

3.2.2 *authority having jurisdiction (AHJ), n*—an organization, office, or individual responsible for enforcing the requirements of a code or standard, or for approving equipment, materials, and installation or procedure.

3.2.3 *crewmember, n*—an individual assigned a duty in a helicopter during flight time.³

3.2.4 *crew resource management (CRM), n*—a method for addressing the challenge of optimizing the human/machine interface and accompanying interpersonal activities to include

³ Aviation Training Glossary, <https://www.iat.gov/Training/pages/online.asp>; 14CFR1.1: FAA Definitions.