



Designation: F2685 – 07

## Standard Guide for Training of a Level II Land Search Team Member<sup>1</sup>

This standard is issued under the fixed designation F2685; the number immediately following the designation indicates the year of original adoption or, in the case of revision, the year of last revision. A number in parentheses indicates the year of last reapproval. A superscript epsilon (ε) indicates an editorial change since the last revision or reapproval.

### 1. Scope

1.1 This guide establishes the minimum training standard for Level II land search team members as it relates to their general, field, and search-specific knowledge, skills, and experience.

1.2 A Level II land search team member searches on the surface of the land only. This guide does not provide the minimum training requirements for searching in partially or fully collapsed structures, in or on water, in confined spaces, or underground (such as caves, mines, and tunnels).

1.3 A Level II search team member can be utilized as: a field team leader, a single resource for sign cutting, a hasty searcher, and to establish segments in the field. No knots, rope, litter, or other rescue skills are required of a Level II.

1.4 Level II search team members are eligible to be members of type II search teams or crews as defined in Classification **F1993**.

1.5 Type II teams which may utilize personnel trained to this standard are Kind A (wilderness), Kind B (urban), and Kind C (mountainous).

1.6 *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 requirements prior to use.*

1.7 Further training may be required before a Level II land search team member can actually participate on a particular kind of search team, depending on the authority having jurisdiction's regulations or policies.

1.8 Land search team members are categorized by levels in which level one is the basic or entrance level and the numbers increase as the requirements increase.

<sup>1</sup> This guide 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. Referenced Documents

#### 2.1 ASTM Standards:<sup>2</sup>

**F1422** Guide for Using the Incident Command System Framework in Managing Search and Rescue Operations

**F1490** Terminology Relating to Search and Rescue (Withdrawn 2011)<sup>3</sup>

**F1633** Guide for Techniques in Land Search

**F1767** Guide for Forms Used for Search and Rescue

**F1993** Classification System of Human Search and Rescue Resources

**F2209** Guide for Training of Level I Land Search Team Member

### 3. Terminology

#### 3.1 Definitions of Terms Specific to This Standard:

3.1.1 *land search team member Level II, n*—a member of a land search team who, as a minimum, meets the requirements of this guide.

3.1.2 *track log, n*—a recording, in a GPS unit, of information about points along a route, including time, location, and elevation.

3.1.3 *way point, n*—locations or landmarks recorded and stored in a GPS unit.

3.1.4 *bump line, n*—the designated line or physical barrier that is used to mark the end of a search segment.

3.1.5 *wilderness, n*—setting in which the delivery of patient care by SAR personnel is adversely affected by logistical complications, such as : an environment that is physically stressful or hazardous to the patient, SAR personnel, or both; remoteness of the patient's location, such that it causes a delay in the delivery of care to the patient; or lack of adequate medical supplies, equipment, or transportation.

<sup>2</sup> 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.

<sup>3</sup> The last approved version of this historical standard is referenced on www.astm.org.

3.1.6 *helicopter landing zone (LZ), n*—an area that has an adequate and acceptable touchdown pad, safety circle, and approach/departure path.

3.2 For definitions of other terms used in this guide, see Terminology **F1490**, Guide **F1633**, Guide **F2209**, Classification **F1993**, and other references within this guide.

#### 4. Significance and Use

4.1 This guide establishes the minimum standard for training land search team members as it relates to their general, field, and search-specific knowledge, skills, and experience. A person trained to this guide is a Level II land search team member.

4.2 Every person who is identified as a Level II land search team member shall have met the requirements of this guide.

4.3 This guide is to be used by individuals and agencies having jurisdiction that wish to identify the minimum training standards for Level II land search team members

4.4 It is up to the Authority Having Jurisdiction (AHJ) to determine the depth or detail of training to meet these needs.

4.5 Nothing in this standard precludes an AHJ from adding additional requirements for its own members.

4.6 This guide by itself is not a training document. It is only an outline of the topics required for training or evaluating a Level II land search team member, but it can be used to develop a training document or program.

4.7 This guide does not stand alone and must be used with the referenced documents to provide specific information needed by a Level II land search team member or AHJ.

4.8 This guide can be used to evaluate a book or other document to determine if its content meets the necessary topics for training a Level II land search team member. Likewise, the guide can be used to evaluate an existing training program to see if it meets the requirements in this guide.

4.9 The knowledge and skills requirements presented in the following sections are not presented in any particular order and do not represent a training sequence.

4.10 Except where a physical skill needs to be shown, it is up to the AHJ, instructor, evaluator, or tester to determine the best way to evaluate a person's knowledge. This may be by written exam, oral exam, demonstration, or by some combination of the three.

#### 5. General Knowledge and Skills Required for a Level II Land Search Team Member

5.1 Candidates must have met qualifications for, and functioned as a level I land search team member for a length of time determined by AHJ.

5.1.1 Fitness standards shall be determined by AHJ.

5.2 *Incident Command System* (See Guide **F1422**)

5.2.1 It is required that Level II land search team members complete the National Incident Management System (NIMS) courses ICS-100, ICS-200 and IS-700.

5.3 *Personal Safety and Survival*

5.3.1 A Level II land search team member must have experienced overnight situations during adverse weather conditions for his/her agency's normal area of operation.

5.3.2 A Level II land search team member must have experience searching in adverse weather conditions in hazardous terrain common to his/her agency's normal area of operation.

5.3.3 Level II must have a clear understanding of the basic skills needed for survival in his/her agency's normal area of operation.

##### 5.4 *Land Navigation:*

###### 5.4.1 *Topo Maps*

5.4.1.1 Demonstrate the ability to locate in the field a point shown on a map.

5.4.1.2 Demonstrate the ability to locate a position in the field on a map.

5.4.1.3 Locate a search segment in the field.

5.4.1.4 Demonstrate proficiency in using a topographic map.

###### 5.4.2 *Compass*

5.4.2.1 Demonstrate using a compass to guide a search team in the field.

5.4.2.2 Demonstrate putting in a bump line to delineate a search segment.

5.4.2.3 Demonstrate proficiency in using a compass.

###### 5.4.3 *GPS*

5.4.3.1 Demonstrate the ability to create track logs and waypoints.

5.4.3.2 Demonstrate the ability to obtain information from a GPS unit and correlate to a topo map.

##### 5.5 *Communication*

###### 5.5.1 *Briefing*

5.5.1.1 Demonstrate briefing your team members on the following subjects:

- (1) Subject information
- (2) Terrain
- (3) Tactics
- (4) Clues
- (5) Weather
- (6) Safety/Hazards
- (7) Assignment objectives
- (8) Attitude

###### 5.5.2 *Debriefing*

5.5.2.1 Discuss debriefing forms or documentation used by the AHJ or both (See Guide **F1767**).

5.5.2.2 Demonstrate debriefing with the Plans Section on the following subjects:

- (1) Safety issues
- (2) Coverage (POD)
- (3) Clues found
- (4) Search difficulties or problems or both in assigned area

##### 5.6 *Search Techniques*

5.6.1 Demonstrate understanding of search techniques described in Guide **F1633** that are used by your AHJ.

5.6.2 Demonstrate the ability to lead a search crew using the search technique(s) assigned.

##### 5.7 *Leadership*