



Standard Guide for Training of Support Level Land Rescue Team Member (LRT-Support) Member¹

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1. Scope

1.1 This guide establishes the minimum training standard for LRT-Support Members as it relates to their general, field, and rescue-specific knowledge and skills. This document may appropriately be used to develop or evaluate a training document or program.

1.2 An LRT-Support Member rescues on the surface of the land only, including wilderness, mountainous, desert, or remote environments. This guide alone does not provide the minimum training requirements for rescuing in the high angle environment, partially or fully collapsed structures, in or on water, in confined spaces, or underground (such as caves, mines, and tunnels).

1.2.1 An LRT-Support Member is required to have knowledge and skill sets pertaining to the evacuation/carryout component of rescue.

1.2.2 LRT-Support Members must work under qualified supervision.

1.2.3 LRT-Support Members are eligible to be members of Type II search teams or crews as defined in Classification **F1993**.

1.3 Type II teams which may utilize personnel trained to this guide are Kind A (wilderness), Kind C (mountainous), or other remote areas including urban or disaster areas that may be isolated or have lost their infrastructure.

1.3.1 Further training may be required before an LRT-Support Member can actually participate on a particular kind of rescue team, based on specific local need, regulations, or policies.

1.4 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.

¹ This practice 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*:²

F1490 Terminology Relating to Search and Rescue (Withdrawn 2011)³

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

F1633 Guide for Techniques in Land Search

F1768 Guide for Using Whistle Signals During Rope Rescue Operations

F1993 Classification System of Human Search and Rescue Resources

F2209 Guide for Training of Level I Land Search Team Member

F2047 Practice for Workers' Compensation Coverage of Emergency Services Volunteers

2.2 *Other Documents*:

NWCG PMS 307 Work Capacity Test⁴

3. Terminology

3.1 For definitions of terms used in this guide, see Terminology **F1490**, Guide **F1633**, Classification **F1993**, Practice **F2047**, Guide **F2209**, and other references within this guide.

3.2 *Definitions of Terms Specific to This Standard*:

3.2.1 *rescue team, n*—a group of individuals rescuing on the surface of the earth.

3.2.2 *Support Level Land Rescue Team Member (LRT-Support Member), n*—a member of a rescue team who, as a minimum, meets the requirements of this guide. These requirements define the basic, entry, awareness, or similar term level of land rescue knowledge and skills.

4. Significance and Use

4.1 This guide establishes the minimum standard for training Land Rescue Team Members as it relates to their general,

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.

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

⁴ Available from NWCG IRM-PMO, National Interagency Fire Center, 3833 S. Development Avenue, Boise, ID 83705, www.nwcg.gov.

field, and rescue-specific knowledge and skills. A person trained to this guide is a Support Level Land Rescue Team Member (LRT-Support Member).

4.2 Every person who is identified as an LRT-Support Member shall have met the requirements of this guide.

4.3 This guide is to be used by individuals and Agencies Having Jurisdiction (AHJ) that wish to identify the minimum training standards for LRT-Support Members.

4.4 This guide is only the first level of training for land rescue personnel and, in conjunction with Guide **F2209**, only establishes the minimum knowledge and skills required for a person to perform basic evacuation type rescue of a subject. No rope rescue or other advanced skills are included or implied.

4.4.1 Nothing in this guide precludes an AHJ from adding additional requirements for its own members.

4.5 Additional skill set-specific endorsements may be used in conjunction with this document to classify rescue personnel to more specific rescue disciplines.⁵

4.6 This guide by itself is not a training document. It is only an outline of the topics required for training or evaluating an LRT-Support Member, although it can be used to develop a training document or program.

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

4.8 This guide does not stand alone and must be used with the referenced documents to provide the specific information needed by a particular LRT-Support Member or AHJ.

4.9 Though this guide establishes the minimum standards, it does not imply that a (SLLRT) Member is a “trainee,” “probationary,” or other similar term member of an AHJ. It is up to the AHJ to determine the requirements and qualifications for member ratings.

4.10 Because technical rescue is inherently dangerous and Land Rescue Team Members are frequently required to perform rigorous activities in adverse conditions, regional and national safety standards shall be included in agency policies and procedures. Land Rescue Team Members shall complete all activities in the safest possible manner and shall follow national, federal, state, provincial, and local safety standards as they apply to the Land Rescue Team Member.

4.11 This guide can be used to evaluate a document to determine if its content meets the necessary topics for training an LRT-Support Member. Likewise, the guide can be used to evaluate an existing training program to see if it meets the requirements of this guide.

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

4.13 Except where a physical skill needs to be shown, it is up to the AHJ 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

5.1 General Requirements:

5.1.1 As a prerequisite, LRT-Support Member shall meet all requirements of Guide **F2209**.

5.2 Personal Requirements:

5.2.1 Personnel operating at this level should possess minimum physical fitness standards as required by NWCG PMS 307 or equivalent.

5.2.2 Medical requirements established by the AHJ.

5.2.3 Emergency medical care performance capabilities for entry-level personnel developed and validated by the AHJ.

5.2.4 Able to read, write, speak, and understand the language of the AHJ.

5.2.5 Minimum requirements for hazardous material incident and contact control training, validated by the AHJ.

5.3 Personal Equipment:

5.3.1 Along with personal equipment, as outlined in Guide **F2209**, additional rescue-specific personal equipment shall be specified by the AHJ.

5.3.2 Training in rescue-specific personal equipment should include selection and use of at least basic Personal Protective Equipment (PPE):

5.3.2.1 Helmet.

5.3.2.2 Gloves.

5.3.2.3 Harness.

5.3.2.4 Carabiners.

5.3.2.5 Personal safety lanyards.

5.3.3 Additional rescue-specific equipment necessary for an LRT-Support Member to safely participate on a rescue varies by type of rescue, team assignment, season, environment, and terrain.

5.3.4 An LRT-Support Member shall explain the reasons to carry, and explain or demonstrate the use of, all rescue-specific personal equipment required by the AHJ.

5.3.5 Personnel shall demonstrate ability to inspect PPE for the purpose of identifying wear, damage, and operational readiness.

5.3.6 LRT-Support Member shall demonstrate ability to appropriately clean and maintain equipment, including documentation in equipment logs and other record-keeping logs as appropriate.

5.4 Team Rescue Equipment:

5.4.1 LRT-Support Member shall be familiar with team rescue equipment identified and commonly used by the AHJ. Such equipment may include, but not be limited to:

5.4.1.1 Medical equipment.

5.4.1.2 Patient packaging equipment.

5.4.1.3 Technical rescue equipment.

5.4.1.4 Litters.

5.4.1.5 Transport vehicles.

5.4.1.6 Communications equipment.

5.4.2 An LRT-Support Member shall explain the reasons to carry, and explain or demonstrate the use of, all rescue equipment required by the AHJ.

⁵ It is the intent of Committee F32 to develop certain skill set-specific endorsements that will augment this document. The intent is to provide additional guidance for training to specific technical capabilities or disciplines found in rescue including rope rescue, swiftwater, etc.

5.4.3 Able to inspect team equipment for the purpose of identifying wear, damage, and operational readiness.

5.4.4 Demonstrate ability to exercise appropriate maintenance procedures including cleaning as well as maintenance of logs and records.

5.5 *Communications:*

5.5.1 In addition to meeting the communications requirements outlined in Guide **F2209**, the LRT-Support Member shall be familiar and conversant in the use of Practice **F1591**.

5.5.2 LRT-Support Member shall be familiar and conversant in the use of Guide **F1768**.

6. Rescue Concepts and Capabilities

6.1 LRT-Support Member shall be able to explain the following basic rescue principles:

6.1.1 The significance of the “Golden Hour.”

6.1.2 Basic concepts of rescue triage.

6.2 LRT-Support Member shall be able to demonstrate his or her ability with the following Rescue Concepts:

6.2.1 Size up a rescue incident, given background information and applicable reference materials.

6.2.2 Determine type of rescue needed, the number and location of victims, and assess resource needs (based on size-up information).

6.2.3 Recognize and manage potential site hazards.

6.2.4 Assess risk-benefits of a rescue operation and mitigate reasonably predictable types of rescuer and victim risk.

6.2.5 Identify and discuss factors that affect rescue efficiency, including (but not limited to):

6.2.5.1 Access time.

6.2.5.2 Terrain.

6.2.5.3 Vegetation and ground cover.

6.2.5.4 Weather.

6.2.5.5 Darkness.

6.2.5.6 Rescuer condition.

6.2.5.7 Subject condition.

6.2.5.8 Rescuer skill and proficiency.

6.2.5.9 Number of subjects.

6.2.5.10 Environmental hazards.

6.2.6 Identify different types of patient transport devices (litters) appropriate for backcountry use and discuss advantages/disadvantages of each.

6.2.7 Define the following land rescue team functions:

6.2.7.1 Rescue team leader.

6.2.7.2 Radio operator.

6.2.7.3 Navigator.

6.2.7.4 Rescue Team Member.

6.3 LRT-Support Member shall be able to meet the following Rescue Capabilities:

6.3.1 Self-sufficient in the normal operating environment for a period of at least 24 h.

6.3.2 Evaluate and make necessary adaptations in order to perform their normal duties in any and all “normally expected” conditions including darkness in their normal area of operation.

6.3.3 Perform normal duties in any and all terrain reasonably likely to be encountered in the AHJ normal area of operation.

6.3.4 Ability to understand and make necessary adjustments for performing normal rescue duties under reasonably anticipated seasonal conditions.

6.3.5 Ability to understand and make necessary adjustments for (including avoidance of) hazardous environments.

6.3.6 Ability to safely and effectively perform rescue duties within an incident management system.

6.3.7 Ability to Locate and Access a patient in low angle terrain in normal operating environment.

6.3.8 Ability to determine and maintain a point of access to subject and identify an escape route.

6.4 LRT-Support Member shall be able to demonstrate the following Patient Stabilization and Packaging skills:

6.4.1 Ability to initiate basic emergency medical care including airway, ventilation, circulation, bleeding control, spinal precautions, and shock treatment.

6.4.2 Ability to use personal protective barriers as required.

6.4.3 Ability to triage victims according to local protocol and resource availability.

6.4.4 Ability to package a patient into a litter, including implementation of provisions for:

6.4.4.1 Spinal immobilization.

6.4.4.2 Patient protection (thermal, environmental, etc.).

6.4.4.3 Securing a patient into the litter.

6.4.4.4 Access to patient injuries.

6.4.4.5 Access to patient care equipment.

6.5 LRT-Support Member shall be able to meet the following Patient Care During Transport skills:

6.5.1 Safely move a victim in a litter across and through a low-angle terrain.

6.5.2 Familiarity with unique needs and challenges of patients during extended transport.

6.5.3 Describe procedures for managing bodily fluid isolation and demonstrate use of personal protective techniques.

6.5.4 Describe significance and methodology for adapting immobilization, patient protection, and security of patient in litter based on extended transport times.

6.6 LRT-Support Member shall be able to meet the following Litter Transport skills:

6.6.1 Demonstrate standard litter carry techniques including trail carry, hand pass.

6.6.2 Use of litter transport assistive devices such as litter wheels, ATVs, or other equipment.

6.6.3 Ability to assist in the loading and transport of litters using aircraft available to/used by the AHJ.

6.6.4 Perform ground support operations for helicopter activities, including the following:

6.6.4.1 Familiarity with helicopter types and use.

6.6.4.2 Ability to use type-specific personal protective equipment.

6.6.4.3 Familiarity with and ability to work safely around aircraft.

6.6.4.4 Ability to establish and control landing zones.

6.6.4.5 Familiarity with aircraft safety systems.

6.6.4.6 Knowledge of aircrew communications methods.

6.7 LRT-Support Member shall demonstrate the following Incident Termination skills:



6.7.1 Ability to transfer a victim to emergency medical services (EMS) according to local medical protocols.

6.7.2 Ability to secure a scene, including ensuring that all rescuers are out of the field and equipment is secured.

6.7.3 Ability to conduct an incident debrief with rescue personnel.

7. Keywords

7.1 Incident; Rescue; Rescuer; Responder; Response; SAR; Search and Rescue; Training; Qualifications

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