

The intent of the Remote Support Personnel requirements is to outline skills critical to the functionality of Remote Support. The intent is to not duplicate skills required by other SAR certifications unless the skill is seen as critical for being able to perform duties of Remote Support.

Should Remote Support participants be limited to FTL and above? If not (and that is ok) we need to identify tasks that could be performed by FTM.

Remote Support Awareness (Type-III) - at a minimum this person should be able to function as an on-scene coordinator.

1) Basic Remote Support Operation

- a) Basic Incident Command System (ICS) structure and procedures within the National Incident Management System (NIMS)
 - i) knowledge of how SAR fits within the organizational structure, and from whom to seek support or guidance on issues
 - ii) familiarity with basic Incident Command Post operations
 - iii) Describe the importance of an established battle rhythm (communications schedule) when working with command and general staff including Remote Support.
- b) Demonstrate a working knowledge of the responsibilities of the On-Scene Liaison, the Remote Support Team Leader and the Remote Support Unit.
- c) Describe the process for requesting Remote Support assistance.
- d) Explain the purpose of the Remote Support Request Form ([RemoteSupportRequest.pdf](#)) and how it is submitted.
- e) Demonstrate the ability to effectively communicate the status of an on-going Incident.
- f) Demonstrate a working knowledge of the types of products available through Remote Support.
- g) Demonstrate the ability to retrieve products developed by Remote Support and utilize them on-scene. Print a Task Assignment Form and Task Map created by Remote Support.

2) Technology

- a) Explain the difference between wireless and wired Internet connections, and describe how to access both systems.
- b) Explain what a "wi-fi hot spot" is and describe at least two ways to establish one.
- c) Describe various means of delivery products from the remote Support Unit to the on-Scene assets.
- d) Demonstrate the ability to access Google Drive and Drop-box
- e) Demonstrate the ability to send and receive e-mails with attachments.
- f) Demonstrate the ability to compress and decompress files.
- g) Troubleshoot hardware and software problems sufficient to staying operational (e.g., connect a printer to a computer)
- h) Demonstrate the ability to upload and download gpx or kml files to a GPS, demonstrate the ability to delete logs in the GPS and discuss the concerns about deleting logs.

- i) Demonstrate the ability to use a flashdrive or usb drive to transfer data from one computer to another.

3) Geospatial Skill set

- a) Demonstrate the ability to effectively determine and communicate geographic (Latitude-Longitude) and projected (UTM/USNG) coordinates.
- b) Demonstrate a working knowledge of commercial off-the shelf mapping and/or GIS software.
 - i) Demonstrate the ability to plot your current location
 - ii) Demonstrate the ability to plot a location for a given set of coordinates
- c) Demonstrate a working knowledge of the map symbology used for incident mapping.

Remote Support Operations (Type-II) - at a minimum this person should be able to function as a Remote Support Unit Member.

1) Basic Remote Support Operation

- a) Demonstrate all the learning objectives from Type-III
- b) Demonstrate the ability to alert other members of the Remote Support Unit for an active operation in need of support.
- c) Demonstrate a working knowledge of the Directory/Folder structure used to facilitate Remote Support.
- d) Demonstrate a working knowledge of the file naming conventional used in remotely supported operations.
- e) Designate three forms of communication that could be used to maintain contact with the incident Command Post.
- f) Demonstrate the ability to organize a small group of Remote Support Unit members to complete the following three tasks: create a series of general maps (mapbook) in the area surrounding the IPP, create a missing person flyer given basic information about the subject and a picture, and create three quick response / Reflex tasks.
- g) Demonstrate the ability to document a field team debriefing electronically and store it in the appropriate folder.
- h) Demonstrate the ability to verbally brief another team member on the current status of an operation.

2) Technology

- a) Demonstrate the ability to set up a wireless network using a mobile / cellular technology. For example – set up a hotspot using a cellular phone or cellular modem.
- b) Demonstrate the ability to save and move files in Google Drive and Drop-box.
- c) Demonstrate the ability to set up a printer. Print Task Assignment Forms on regular and carbonless copy paper.
- d) Troubleshoot hardware and software problems sufficient to stay operational (e.g., perform basic software installs, ensure the license managers are functioning, install print drivers, or connect a plotter to a computer)

3) Geospatial Skill set

- a) Generate maps of the entire search area, suitable for use by the Command Staff
- b) Segment regions into areas that are an appropriate size for a field team to search in an operational period.
- c) Generate detailed task maps, suitable for use by Field Team Leaders
- d) Demonstrate the ability to complete a Task Assignment Form (ICS 215) and save it to a pre-defined location.
- e) Store products and product packages in the appropriate folder within the defined folder layout.
- f) Demonstrate the ability to translate geographic coordinates between dd.dd, dd mm.mm and d m s.
- g) Demonstrate the ability to translate between geographical (dms, dd.dd, dd mm.mm) and projected coordinates (UTM / USNG)

- h) Demonstrate the ability to verify and change the map projection used in a mapping application or GIS.
- i) Demonstrate the ability to create maps showing topography, aerial imagery and streetmaps for an assigned area. Ensure the maps comply with the requirements for field team maps.
- j) Create a map from GPS tracklogs that displays tasks conducted during one operational period.

Remote Support Technician (Type-I) - This person should be able to act in the role of Remote Support Leader

1) Basic Remote Support Operation

- a) Demonstrate all the learning objectives from Type-II
- b) Demonstrate the ability lead a group of 3 or more Remote Support personnel to complete the following tasks:
 - i) Divide a search area into three or more regions and assign personnel to segment their individual region.
 - ii) Assign personnel to create Task Assignments forms and maps for three of the segments in each region.
 - iii) Compile the Task Assignment Forms and Field Maps into a single compressed file, store them in the appropriate folder and e-mail a copy to a prescribed e-mail address.
- c) Demonstrate familiarity with all of the forms, files and documentation folders provided to facilitate a remotely supported operation.
- d) Demonstrate the ability to establish a "Battle Rhythm" or schedule of operations for conducting briefing and delivering products in a timely manner.
- e) Team Transition: provides procedures for an effective and consistent method of transitioning from one RS Unit member to another, and includes guidance on procedures, responsibilities, and communications.
- f) Describe three ways of digitizing hand-written information and preparing it for transmission to another party.

2) Technology

- a) Demonstrate the ability to set up a router and establish a wired or wireless network.
- b) Demonstrate the ability to modify and create additional folders in the documentation directory structure provided to store files for a remotely supported operation.
- c) Demonstrate the ability to create new documents and spreadsheets to record information about the operation.
- d) Demonstrate the ability to properly archive a mission folder and share a copy of it with a team member.
- e) Establish procedures for uploading / downloading data (waypoints, track logs) to / from GPS receivers.

3) Geospatial Skill set

- a) Create a Transportation map for a designate area that details have field teams can access assigned search areas.
- b) Receive spatial data file of three segmented regions (gpx, kml, shp, etc) and combine them into a single file containing all of the segments.
- c) Answer questions, such as size of the search area (acres), length of an assigned task, or other questions requiring basic geospatial analysis and geoprocessing skills.
- d) Demonstrate the ability to georeference the image of a map or aerial image for a defined area.
- e) Create a map that can be used to the Authority Having Jurisdiction on the current status of an operation.

- f) Discuss the concept of Minimum Essential Dataset and describe the type of spatial data you may use during a typical operation.