



Are you Ready?



What would you do?

Preparing for Public Service



Ron Hollas - K8RJH

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Presentation Agenda



Welcome to Preparing for Public Service!
We will present “What it is and What you can Do!”

Topics Include;

- Amateur Radio Purpose
- Encomm Agencies and Partners
- What Equipment is Required
- Preparedness – Training and Exercises
- Evaluate your Interests
- Volunteer, Learn and Train
- Use Information Resources to Improve your Skills

Code of Federal Regulations

Amateur Radio Service



Subpart A - General Provisions § 97.1

Basis and purpose. The rules and regulations in this part are designed to provide an amateur radio service having a fundamental purpose as expressed in the following principles:

- (a) Recognition and enhancement of the value of the **amateur service** to the **public** as a voluntary noncommercial communication service, particularly with respect to **providing emergency communications**.
- (b) Continuation and extension of the amateur's proven ability to contribute to the advancement of the radio art.
- (c) Encouragement and improvement of the amateur service through rules which provide for advancing skills in both the communication and technical phases of the art.
- (d) Expansion of the existing reservoir within the amateur radio service of trained operators, technicians, and electronics experts.
- (e) Continuation and extension of the amateur's unique ability to enhance international goodwill.

Amateur Radio Emergency Communications (EMCOMM)



Several Organizations Include Amateur Radio Capability with Planning and support of the Local, State and Federal community emergency services.

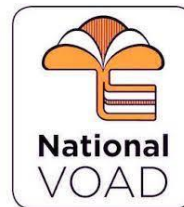


FEMA

ARRL Served Agencies and Partners for Emergency Communications



The ARRL has a number of formal agreements with emergency management, government organizations, NGOs, non-profits and public service agencies.



What Equipment is Required?

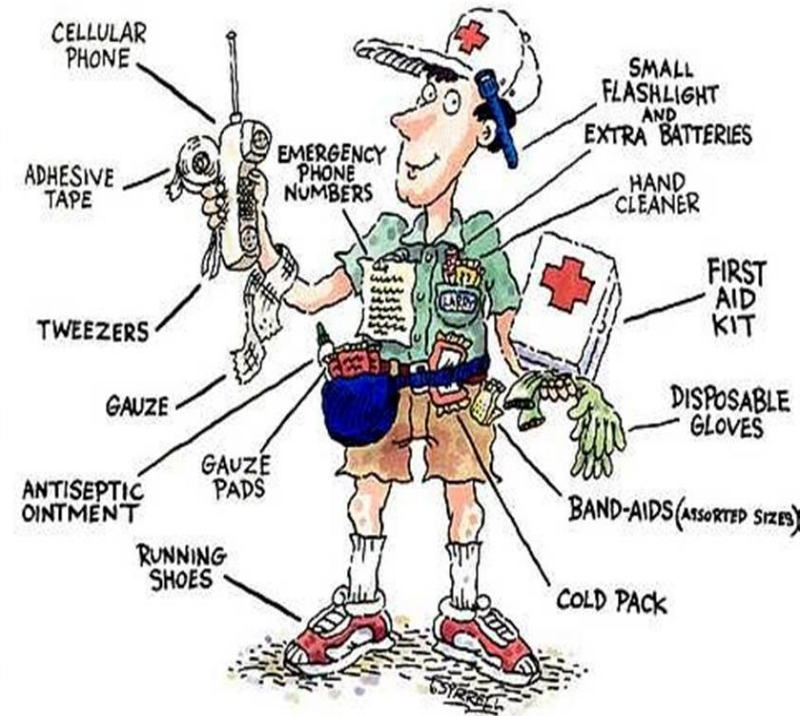


Some Older Radios will simply not work with the newer Technology!



An Amateur Technicians License, Newer Amateur Digital VHF and UHF Voice Mode Radios, Computer and Internet Access are great resources to have.

Use What You Have... is a great way to start!



Most Amateur Volunteers use a handheld UHF/VHF with an inexpensive Hi Visibility Vest for most training, drill and exercise activities.

How prepared are you for a Major Emergency Event?



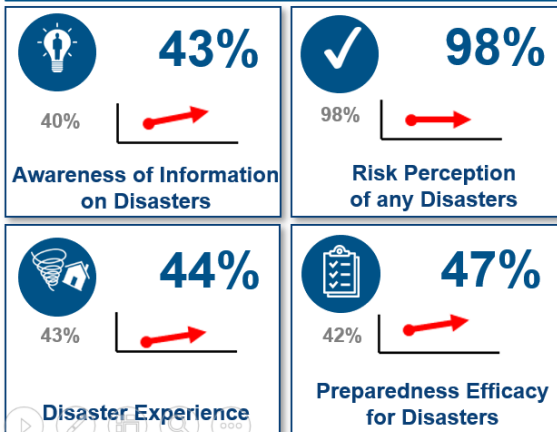
National Preparedness Results

Legend: Gray = 2017 NHS; Blue = 2018 NHS

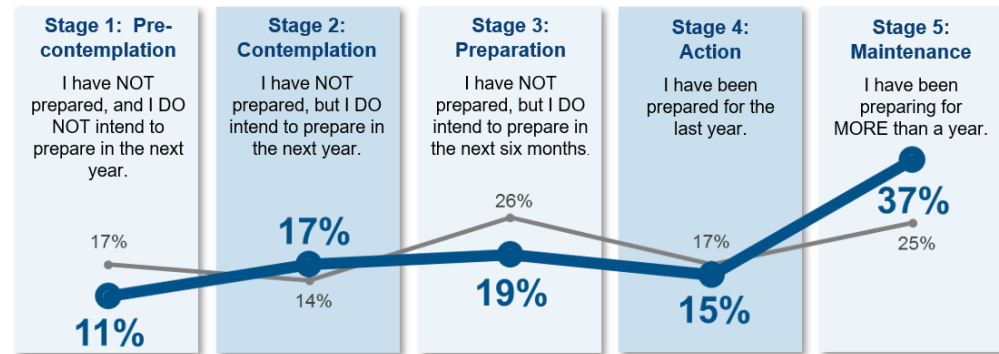
Taking Action to Prepare for a Disaster



Disaster Preparedness Influencers



Perceived Preparedness for a Disaster



www.fema.gov

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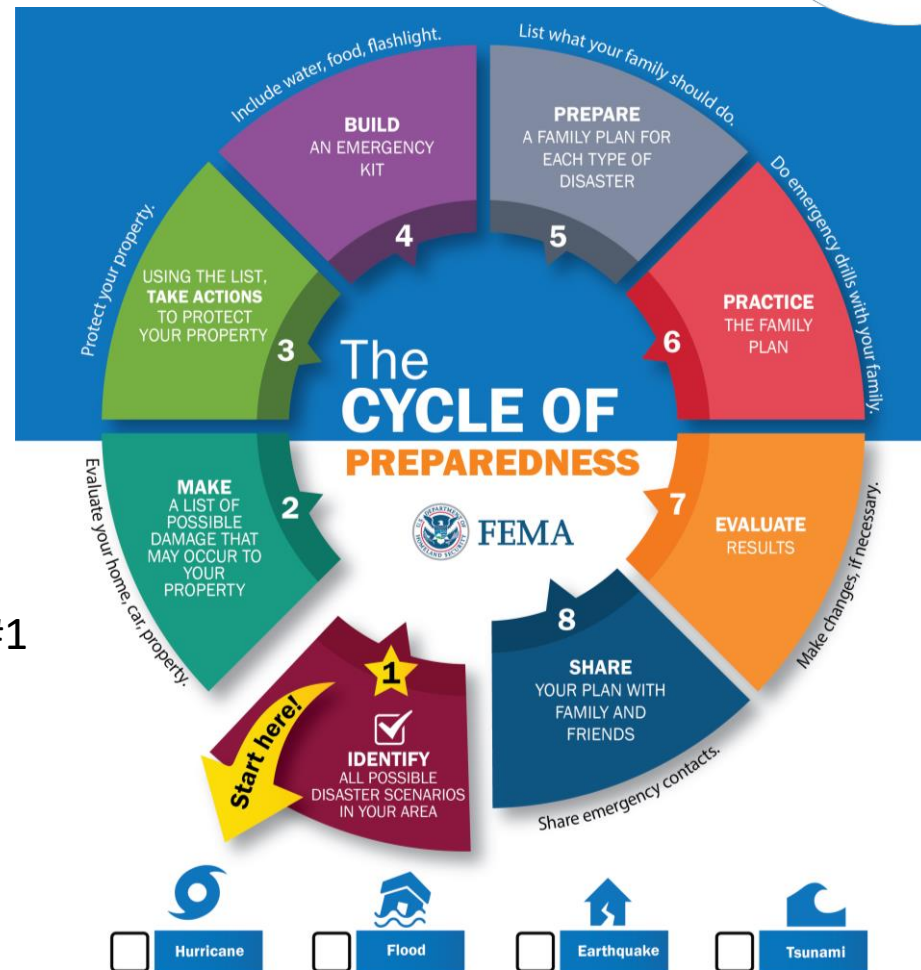
https://community.fema.gov/story/FEMA-Releases-2018-National-Household-Survey-Results-on-Individual-and-Community-Preparedness?lang=en_US

Preparedness is an Organized and Continuous Process of Planning



Preparedness is a Cycle of

1. Identify Threats
2. Evaluate Risks
3. Protect Actions
4. Assemble Resources
5. Prepare an Action Plan
6. Practice the Plan
7. Evaluate the Plan Effectiveness
8. Share the Plan and Update Step #1



Preparing for Emergency Communications

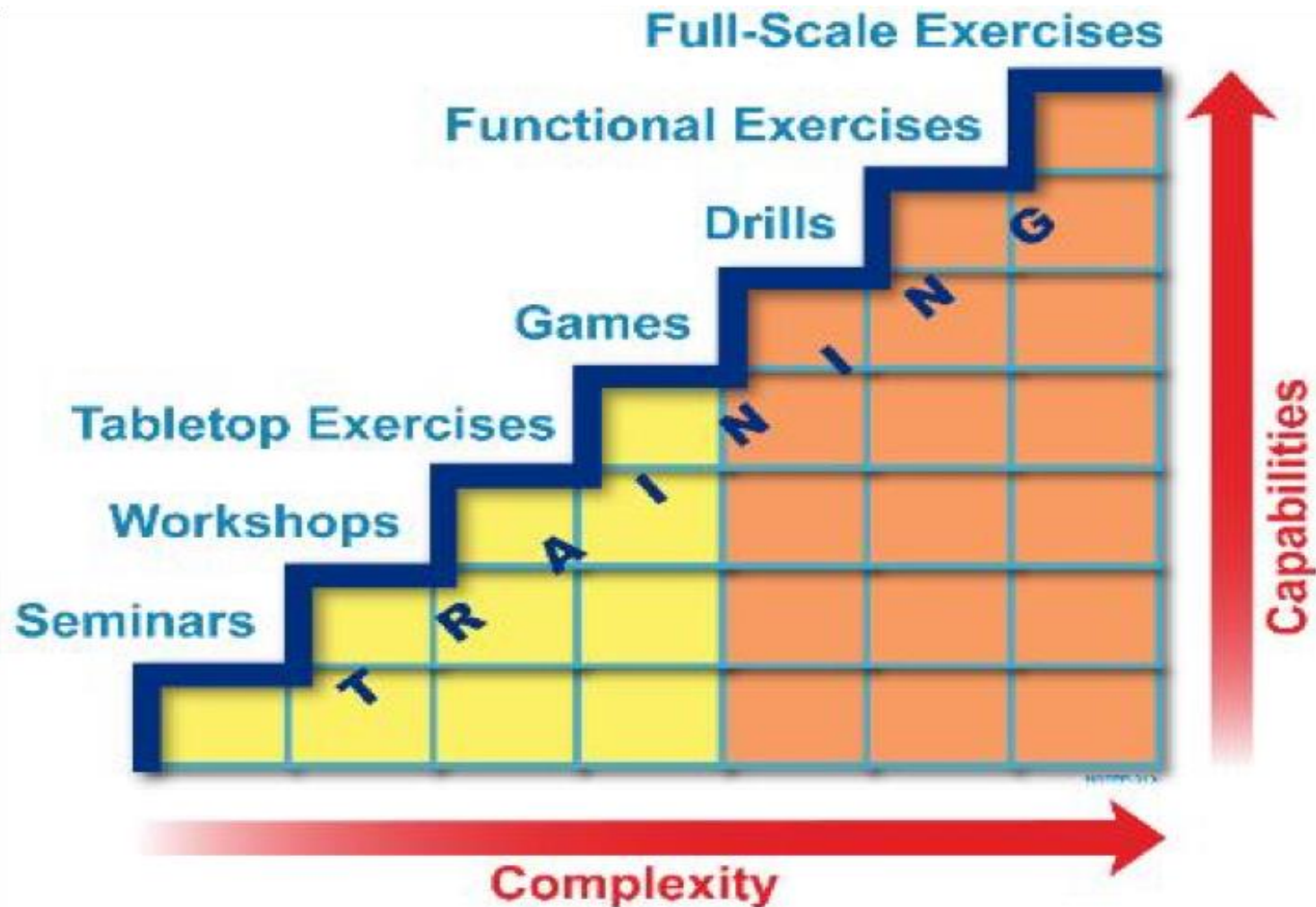


Although Events may be specific and varied, Emergency Messages and Communications requirements are consistent with type and context to be effective.

Training and Exercises are necessary to develop Effective Operational Skills.



Training can Incorporate a Broad Range of Complexity and Capabilities

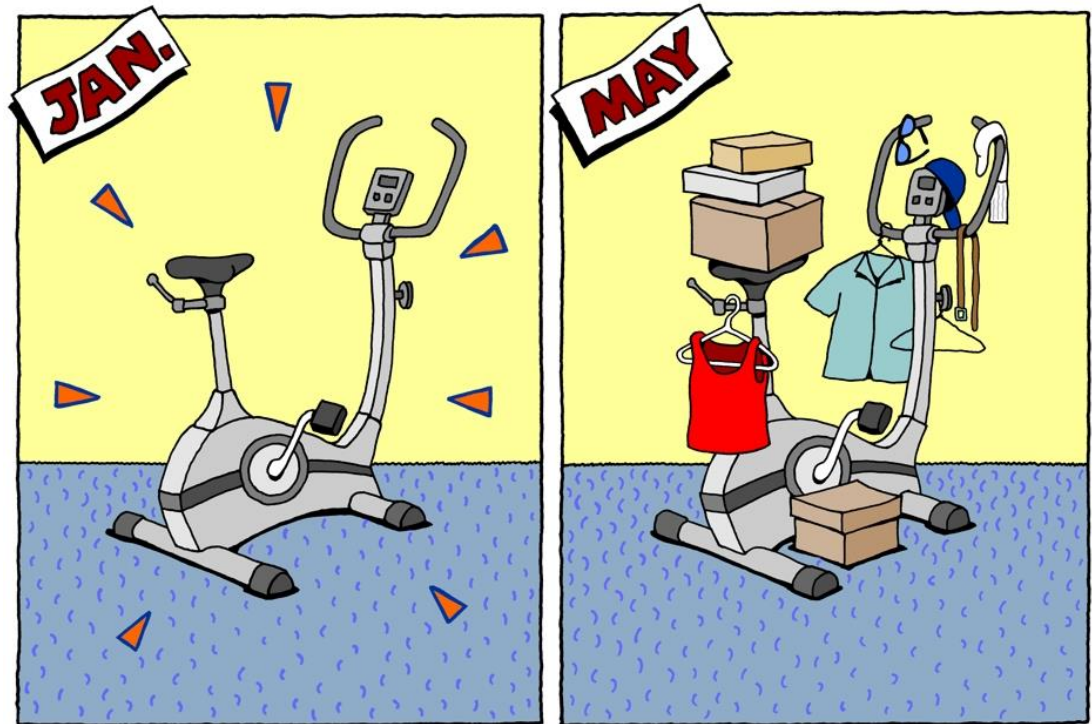


Training and Exercises are an Important step for Emergency Preparedness



1. Training and Exercises can offer Skill Improvement and Community Benefits.

2. Training and Exercises is a Continual Process for Preparedness. Requires Commitment





How can you be involved in Emergency and Disaster communications?

Individual Involvement.

Assistance with a Vehicle Incident
Washed Out Road

Area Weather or Natural Event (Storm/Tornado/Earthquake)



Team Member Involvement

Message Handling for Shelters, Events and Served Agencies
Shadowing Served Agency Leaders for Communications
Search and Rescue Communications
Backup Inter-Organization Communication





How can you be involved in Emergency and Disaster communications? (Cont.)

Volunteer for Opportunities in;

Local Public Service Communications Support
Parades, School Events, ...

Community Served Agency Events
BSA Jamborees, Airport Drills, Skywarn...

Non-Profit Fundraising Programs
Marathons, County Fairs, ...

VOL NTEER
all that's missing is U!

Join an ARES or Emcomm group

Participate in Amateur Nets

Enroll in Available Training Classes



ARRL Learning Center

[Learning Paths](#) ▾

[Courses](#)

[Webinars](#)

Local Public Service Communications Support (Seven Hills Community Parade)



The CARS team demonstrated what the Amateur Radio Service is all about.



*At left, 'da team:
Joe, KD8BAL
Bob, K8RJH
Shawn, KE8RMV
Scott, AC8NW
Eddie, KD8FTS
Albert, KJ7PVO
Mark, WJ8WM
Bruno, W8BJS
Arp, K8ARP, on
his trusty Vespa*

Community Served Agency Events

(BSA Jamboree on the Air)



Major Community Events (Cleveland Marathon)



How Can Amateur Radio Fit Into Our Local Community Plan?



With a large-scale disaster that overwhelms the City's response resources, there is no radio that will reliably bring a fireman, policeman or paramedic to your door. In the words of one LAFD CERT instructor, "We ain't coming." We must accept that reality and consider how best to utilize what emergency communications resources are available. Let's start by listing the kinds of messages we might need to send or receive.

Within a neighborhood

- Coordinating the shut-off of utilities to prevent fires, explosions or water damage
- Sharing information on status of people and structures
- Marshalling local help for fire suppression, first aid, triage, search and rescue
- Accessing locally stored disaster supplies
- Arranging relocation of those requiring evacuation

Into a neighborhood

- News as to extent of infrastructure damage to surrounding area (roads, etc.)
- Status of area hospitals (In operation or out of service? Accepting patients?)
- Likely timing of (or delays in) responder arrival

- Government advisories (Areas to avoid, sheltering instructions, imminent risks)
- Requests for or offers of assistance from nearby neighborhoods
- Welfare inquiries from out-of-area concerned friends and relatives

Out of a neighborhood

- Advising first responders as to neighborhood status and priority needs
- Advising appropriate agency of any known local infrastructure damage
- Requests for or offers of assistance to nearby neighborhoods
- Welfare status reports to concerned out-of-area friends and relatives

From : <https://www.legion.org/hamradio/definition>

Amateur Radio Public Service



Is Emergency Communications (Emcomm) Team Membership for you?



What are your Personal Goals for use of Amateur Radio?

Consider,

- Your interest for individual involvement with personal and family safety, plus assisting others when normal communications are not available.
- Are you open for Individual and Team training, practice exercises and events with collaborative service agencies that keep you current with Emcomm operating practices



How can I locate an Emcomm Public Service Team?

- A good source is through your local Amateur Club, (e.g CARS)
ARRL and the Ohio Section Website
- A local Emcomm website, (e.g. www.N8ESG.org for Northeast Ohio)
- Directly with Served Agencies
(See reference links)

Amateur Radio Public Service



Preparedness Plans Include;

- Prepare Your Family
- Evaluate your Interests
- Volunteer, Learn and Train
- Use Information Resources to Improve your Skills

Amateur Radio Public Service

Preparing your Family



Personal and Family safety is the first priority

Involve them so...

They know what to do, and

They know what you will do!

Create a Family Plan

Who and how will we contact each other

Where will we meet,

Document and Practice the Plan!



Assess Family and Personal Needs

Cannot focus if worried about family

If a family or personal health issue limits your field service, you still can assist

Personal Safety Requires,

Your Good Health, Assess potential hazards, Avoid unsafe actions

If you're an individual Emergency Communication volunteer...



- **You need to be trained.** In order to provide support in the event of an emergency—or even in a non-emergency situation—you need to have the proper training and licensing. Learn more about the ARRL Emergency Communications Training course. <https://learn.arrl.org/>
- **You need to be equipped with sustaining skills.** What if when you get to a location, there may no food and the resting conditions are undesirable? Before you leave on your assignment, you need to make sure you have coping skills that enable you to be able to do your job operating under the conditions you are assigned to—from hardship conditions to making sure you're able to work the equipment.
- **You need to find ways to volunteer.** You would first want to become a member of your local ARES, CERT, RACES or local emergency management organization. Then try the American Red Cross or Web sites like Ready.gov.

Amateur Radio Public Service Handbook



This reference is for all hams who volunteer their time and skill in service to their communities. It provides knowledge needed for communicating quickly and effectively during disasters, emergencies and community events, as well as an opportunity to learn more about the Amateur Radio Service and its unique role in supporting the public.

Topics Includes:

- ARRL and ARES
- Agencies Served
- Training and Readiness
- Nets and the NTS - National Traffic System
- The Response
- Public Service
- Digital Modes
- Other Relevant Organization



The Amateur Radio Public Service Handbook is available in both e-book and printed forms.

Amateur Radio Emergency Service® (ARES)



The Amateur Radio Emergency Service® (ARES) consists of licensed amateurs who have voluntarily registered their qualifications and equipment, with their local ARES leadership, for communications duty in the public service when disaster strikes.

ARES Membership Requirements

Every licensed amateur, regardless of membership in ARRL or any other local or national organization is eligible to apply for membership in ARES. Training may be required or desired to participate fully in ARES. Please inquire at the local level for specific information. Because ARES is an Amateur Radio program, only licensed radio amateurs are eligible for membership. The possession of emergency-powered equipment is desirable, but is not a requirement for membership.

How to Get Involved in ARES

Fill out the [ARES Registration form](#) and submit it to your local Emergency Coordinator.



Ohio Section ARES

ARES Membership Application

Aren't a member of ARES Yet and would like to be...??

*On-Line Application available
at <https://arrrl-ohio.org>*

Cuyahoga ARES Meeting
When (Check N8ESG.org for Schedules)

1st Tuesdays of the Month
7:00 PM through 9:00 PM

Location

599 W BAGLEY RD
HELWIG WHISTLE STOP
BEREA, OH 44017-1328

ARRL Learning Center



The On-Line ARRL learning center is accessed at <https://learn.arrl.org> .

The Learning Center's extensive course offerings help you increase your knowledge, skills, and ability to enjoy amateur radio at your pace and level. The courses are grouped into three learning paths, “Electronics & Technologies”, “Emergency Communications” and “On the Air” categories.

This Amateur information and training resource includes over major 20 topics for On-Line Training. They include Ham Community and Webinar links that easily help you successfully complete “next step” goals and will enhance your Amateur Radio experience.

The screenshot shows the ARRL Learning Center login interface. At the top is a dark blue header with the ARRL logo (a diamond shape with 'A', 'R', 'R', 'L' inside) and the text "ARRL Learning Center". Below the header, the main content area has a white background. It features the heading "Login to the ARRL Learning Center" in bold. Below this, it says "Complete the form fields below using the username and password you used when creating your ARRL Member Account." There is a link "Don't have an account? Sign up" in blue. Below that, it says "Your login credentials to enter this website are the same as those you registered with on <http://www.arrl.org>". There are two input fields: "Username" with the text "K8RJH" and "Password" with a masked password "*****".

Not An ARRL Member? One can register as a Guest Account into the ARRL Learning Center for a trial period. This is a great option for anyone to review and explore the material.

Public Service Suggested Courses

Intro to Radio for Emergencies and Disasters



Intro to Radio For Emergencies & Disasters

Emergency Communications

The course introduces amateur radio operators to disasters and emergencies communications. It will provide entry level information on the use of amateur radio for personal emergency situations and groups involvement in emergency communication for disasters and emergencies. The self-paced course is interactive with videos, suggested activities, knowledge reviews, and references for additional information. Some of the topics within the course include your potential roles, type of radio equipment used, modes of operations, team organizations, FCC regulations, and self-evaluation of personal/family preparations.

Students will learn:

The role ham radio operators play during emergencies and disasters

How to get involved with an emergency communications team

The types of emergencies and disasters where ham radio operators are asked to respond

Basic operating techniques during an emergency or disaster

Presented by: Tom Devine, WB2ALJ

Public Service Suggested Courses

Intro to Radio for Emergencies and Disasters



EC-001 Intro to Emergency Communications

Emergency Communications

EC-001: Introduction to Emergency Communication: This course is designed to provide basic knowledge and tools for any emergency communications volunteer. The course has 6 sections with 28 lesson topics. It includes student activities, knowledge review quizzes, and a 35-question final assessment. The course is entirely online and completed according to your own schedule.

EC-016 Public Service & Emergency Comm Mgmt

Emergency Communications

EC-016: Public Service and Emergency Communications Management for Radio Amateurs: In this course, you will learn how radio amateurs prepare and organize to support local community events, and, working in coordination with governmental and other emergency response organizations, deploy their services to provide communications when needed in an emergency. This comprehensive course 12 major lesson topics useful for understanding emergency management. It includes student activities, knowledge review quizzes, and a 50-question final assessment. Like the EC-001 Course, it is entirely online and paced according to your own schedule.

PR-101 Public Relations 101 For Radio Amateurs

Emergency Communications

PR-101: Public Relations 101 for Radio Amateurs: This is a basic training course for anyone interacting with the media and promoting Amateur Radio. This course is designed to give hams a quick overview in public relations activities. It also includes student activities, knowledge review quizzes, and a 35-question final assessment. Like the EC-001 Course, it is entirely online and completed according to your own schedule.

Amateur Radio ENCOMM Training

EC-001 Table of Contents



Section 1	The Framework: How You Fit In	Section 4	What Happens When Called
Topic 1	Introduction to Amateur Radio Emergency Communications	Topic 16	Preparing for Deployment
Topic 2	Amateurs Professional Image	Topic 17	Equipment Choices for Emergency Communication
Topic 3	Amateur Radio Emergency Communication Organizations & Systems	Topic 18	Emergency Activation
Topic 4a	Partner Agency Communication Systems	Topic 19	Setting Up, Initial Operations, and Shutdown
Topic 4b	Working Directly With the Public	Topic 20	The Incident Command System
Section 2	The Networks for Messages	Section 5	Maintaining Readiness
Topic 5	Basic Communication Skills	Topic 21	Operations and Logistics
Topic 6a	Basic Net Operations	Topic 22	Health and Safety
Topic 6b	Introduction to Emergency Nets	Topic 23	ARES PIO: The Right Stuff
Topic 6c	Net Operating Guidelines	Topic 24	Alternative Communication Methods
Topic 6d	The FCC Ruling on Drills and Employees	Topic 25	Hazardous Materials Awareness
Topic 7	The Net Control Station	Topic 26	Marine Communications
Topic 8	Net Control Station Operator Practices	Section 6	Alternatives and Opportunities
Topic 9	The Net Manager	Topic 27	Propagation, Space Weather, Solar
Topic 10	Specialized Nets and Their Operations	Topic 28	Other Training Opportunities
Topic 11	Severe Weather Nets / SKYWARN		
Topic 12	Social Media and Emergency Communications		
Topic 13	Digital Communications		
Section 3	Message Handling		
Topic 14	Basic Message Handling and Documentation		
Topic 15	Introduction to the National Traffic System (NTS)		

Code of Federal Regulations Amateur Radio Service



Subpart A - General Provisions § 97.1

Your Goals

Basis and purpose. The rules and regulations in this part are designed to provide an amateur radio service having a fundamental purpose as expressed in the following principles:



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(e) Continuation and extension of the amateur's unique ability to enhance international goodwill.



What would you do?

Preparing for Public Service Useful Links



ARRL Public Service <https://arrl.org> (Go to Public Service Tab)

ARRL Learning Center <https://learn.arrl.org>

ARRL Ohio Section <https://arrl-ohio.org>

N8ESG Event Support Group <https://n8esg.org>

FEMA Interactive Training <https://training.fema.gov>

Ready.Gov <https://ready.gov>

Questions and Discussion





Preparing for Public Service

Ron Hollas - K8RJH

January 2022

ARRL Memoranda of Understanding+

American Red Cross+

Association of Public-Safety Communications Officials-International (APCO-International)+

Boy Scouts of America+

Citizen Corps (Department of Homeland Security)+

Civil Air Patrol (CAP)+

Federal Emergency Management Agency (FEMA)+

National Volunteer Organizations Active in Disaster (NVOAD)+

REACT International Inc.+

Salvation Army & SATERN+

SKYWARN (National Weather Service)+

Society of Broadcast Engineers (SBE)+

United States Power Squadrons+

Quarter Century Wireless Association, Inc.