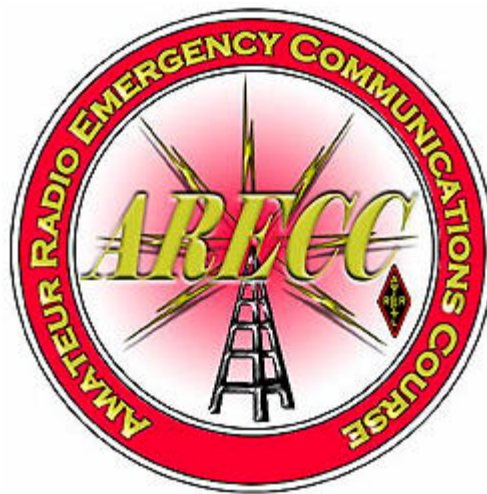


STUDY GUIDE

ARRL ECC LEVEL III Q&A

Note: All reviews are open book!



REVIEW QUESTIONS PUBLISHED - Q&A IN EACH BOOK

ARRL ECC LEVEL III Q&A

Which person creates the local emergency communication plans?

The EC

Which are the functions of the DEC?

B & C - Provide a level of coordination and organization between county EC's and the SEC, Provide a communications link among the district's county EC's.

Which is NOT a function of the SEC?

b - Writing local communication plans for the EC's.

For traffic handling needs, the EC should coordinate his efforts with what group?

National Traffic System (NTS).

Why should EC's develop local operational plans with served agencies?

All of the above - So that each party understands capabilities and limitations of the ARES group - So that the ARES group can respond to the specific needs of the served agencies - To foster development of mutual understanding and respect.

Where does the district level fit in the section's ARES organization?

Between the section and county levels.

How often should the district's plan be tested?

Annually

Which of the following is a good reason to use the district "layer" in the ARES organization?

c - To create a more effective organization.

Which of the following is most accurate about the District Emergency Coordinator?

Is responsible for coordinating the plans of all the EC's in the district.

District plans should contain which of the following information?

Both B & C - Contingency plans for counties without an EC - A training plan for the district.

Which of the following make good opportunities for recruiting ARES members?

All of the above - Clubs, On-the-air-activities, Direct mail

What appointees(s) comprise the core of the Planning Committee?

Assistant EC and EC

Who is eligible to participate in ARES?

Every licensed amateur, regardless of license class.

Who has joined the large Dade County ARES Planning Committee?

All of the above - Public service organizations, Government officials, Law enforcement agencies

What is the procedure for registering for ARES?

After a registration form is completed, the ARES registrant receives an ID card

What is the difference between ARES and RACES?

One is a non-government program (ARES), while the other is government based (RACES).

What are the "RACES" frequencies?

A subset of amateur frequencies, restricted to RACES operations during nationally declared war emergencies.

Is it a good idea too run both ARES and RACES programs in the same area?

d - Yes - Having both ARES and RACES programs provides for maximum flexibility for the area.

What are all RACES communications subject to?

Authorization by a government Emergency Management agency.

Which of the following statements concerning Amateur Radio communications is true?

During the one-hour-per-week RACES drills, RACES stations may communicate with non-RACES stations.

What is the major missing link that can be difficult to overcome in emergency communications planning and organization?

Link between government officials and amateur radio volunteers.

When was the RACES program initiated?

1950's

What are two Amateur Radio Programs that work well together to best serve the state of Michigan?

ARES and RACES.

What is (National Voluntary Organizations Active in Disaster) NVOAD?

A group of organizations that provide services and supplies to victims of disaster.

Which National Voluntary Organizations Active in Disaster (NVOAD) member organization(s) provide(s) radio communication services?

A & B - ARRL & REACT International

What Does ARRL HQ do when NVOAD members respond to a major disaster?

Sends local and state ARES contact information to NVOAD member organizations.

What levels of VOAD are currently in existence?

All of the above - Nation, State and sub-state levels.

Which of the following organizations are members of NVOAD?

All of the above - Presbyterian Church (USA), Catholic Charities USA, Phoenix Society for Burn Victims.

REACT stands for the following?

Radio Associated Emergency Communications Teams.

Which Citizens Band Radio Channel has been designated (and is most widely monitored) for emergency use?

Channel 9

Which of the following best describes the parent organization, REACT International, Inc.?

All of the above - It provides basic structure and overall guidance for the organization, The board of directors sets policy and appoints the officers who manage the daily affairs of the corporation, the board of directors establishes committees that perform various functions in support of the entire organization.

The basic unit of REACT is which of these?

Local team.

Where on the Internet can more information about the REACT International organization be found?

<http://www.reactintl.org>

Which of the following would NOT trigger a communication system failure mode?

Excess channel capacity.

During which phase should response groups be making final preparations?

Warning

Which disaster is most likely to have the longest emergency communication time line?

Hurricane.

Which of the following would NOT be considered "physical assets"?

Team members.

Why is a team approach to planning recommended?

All of the above - it creates a cooperative atmosphere, more possibilities are considered, a greater level of experience and skill is brought to the group.

What mode should be used to send a list of casualties?

A secure mode.

What types of messages are good to send by fax?

High precision, lengthy and complex messages.

What types of messages should be handled by a packet bulletin board system?

Non-time-critical messages and reference material, when the sender and receiver cannot be available simultaneously.

What is the pitfall that is common to telephone, cellular phone and trunked radio systems?

They all require the use of a complex central switching system that is subject to failure in a disaster situation.

Which of the following is an example of an inefficient communication?

All of the above - A ham communicating a lengthy list of needed medical supplies over a voice net, with a working fax machine sitting next to him. A lengthy exchange between two stations on a voice channel being shared by a large number of users, Typing out a digital message that "the delivery van containing coffee has arrived at this location" on a high-precision packet link.

What does the Federal Response Plan do in a major disaster?

Coordinates federal agency assistance to overwhelmed state and local agencies.

What is an example of an emergency support function?

All of the above - Communications, Mass Care, Transportation.

Which of the following agencies has led for Mass Care under the FRP?

Red Cross

What describes the function of reducing vulnerability to future disasters?

Mitigation. (communities take action to reduce potential impact of an impending disaster, emcomm groups moving in and setting up etc)

Before the FRP can go into effect, who must declare a disaster area?

President.

What agency is responsible for implementation of Emergency Support Function (ESF) #2?

National Communication System

When are Emergency Support Functions activated?

After Federal Response Plan is activated by a Presidential disaster declaration.

What emergency support function is the NDMS a part of?

Health and medical services.

What are some of the functions of ESF #6?

Feeding, sheltering and first aid.

ARRL hold memoranda of understanding with which of the following ESF agencies?

National Communications System and American Red Cross

What is the first thing that happens after a disaster has occurred?

Massive increase in the volume of traffic on public safety radio channels.

As various agencies respond to an incident, are they able to communicate with each other easily?

A & B - No as agencies use incompatible radio systems, No, as agencies are reluctant to use another's system.

In the first 72 hours of a disaster situation where is the greatest concentration of relief effort to be found?

Urban areas.

What organization handles health and welfare messages on behalf of the victims?

National Traffic System.

What is the usual situation in a disaster after the initial 72 hours?

The disaster area remains in virtual isolation.

What is the difference between a hurricane watch and a hurricane warning?

A watch is issued when there is a threat within 24 to 36 hours. A warning is issued when there is a threat of hurricane wind within 24 to 36 hours.

A hurricane with winds of 120mph would be placed in what category on the Siffer-Simpson scale?

Category 3

What is a storm surge?

Water that is pushed toward the shore by the force of the winds.

ARES and RACES leaders should participate in which of the following activities?

All of the above - State hurricane conferences, State hurricane exercises, ARES/RACES' own hurricane exercises.

What is the function of the National Hurricane Center's station W4EHW?

The station's amateurs receive reports of storm-related activity on the air for referral to the center's professional hurricane forecasters.

When is the Hurricane Watch Net activated?

When a hurricane is within 300 miles of making landfall.

Who should check in to the Hurricane Watch Net before a hurricane makes landfall?

Only amateurs in the affected area, or amateurs with important information that would be needed by the net or Hurricane Center.

Does a station have to be located in a hurricane area to be a member?

No, the net has a need for stations in the mid-west and west coast that can control the net as propagation shifts to the west.

What is the primary agency served by the Hurricane Watch Net?

National Hurricane Center

Does the National Hurricane Center and Hurricane Watch Net prefer measured or estimated weather reports?

A & B - Measured reports, from calibrated weather instrument packages. Measured reports, but will accept estimated reports as better than nothing.

What is the name of a message that contains the status of victims of a disaster?

Health and welfare traffic and disaster welfare traffic.

When disaster traffic transcends the boundaries of a section, what is the next level of NTS that comes into play?

Region net

When handling health and welfare traffic outside of a disaster area, priority should be given to what kinds of messages?

Messages coming out of the disaster area.

What organization has official responsibility for health and welfare traffic function in a disaster situation?

American Red Cross

What is the main function of the NTS in an emergency?

Link various activities and systematically relay traffic destined outside of a local area.

When is it permissible to utilize channel FM22?

Only when directed by the Coast Guard.

Which action should you take when you hear a mayday call on FM16?

Listen for a response. If none, respond and gather all information possible and then contact the nearest Coast Guard facility.

When must you identify yourself on VHF-FM marine radio?

On all transmissions

Which vessels operate MF/HF-SSB units?

Only those vessels that operate offshore and have a VHF-FM marine radio.

Which channel(s) may be used for calling another vessel?

FM 9 & FM 16

Which action should the intake coordinator take when a new volunteer arrives?

interview them and determine their skills and suitability.

Which statement best characterizes the number of available trained operators?

seldom adequate for large events.

Which person is directly responsible for handling walk-in volunteers?

The intake coordinator.

Which of the following should be included in a "new volunteer" handout?

All of the above - List of net frequencies, List of ARES command personnel, Name of Incident Commander and his or her agency.

Which is the best job to give a new volunteer?

Logger for a busy net

Which of the following is the key to designing a successful exercise?

All of the above - The goals of the exercise must be clearly articulated. The right type of exercise must be designated. Feedback on exercise performance must be promptly given to all participants.

What is a tabletop exercise?

A role-playing meeting.

The success of any exercise is directly proportional to which of the following?

The amount of time spent planning it.

What is the name of the ARRL's annual ARES exercise?

Simulated Emergency Test (SET)

How should feedback be presented to the participants?

In a positive, timely manner.

If the immediate safety of life and/or property is involved, what can an amateur do?

Use any radio communication media available to send essential information.

Can an amateur station provide day to day services to the US Forest Service?

NO, the US Forest Service should provide its own communications system for its regular needs.

"Checkpoint Charlie" is an example of what?

Tactical call sign.

A major earthquake takes out public safety and other communications. What can amateurs do?

All of the above - Make transmissions necessary to meet essential communications needs and facilitate relief actions. If an immediate threat to life is involved, and no other communications are available, use any means to send essential information. If the amateur station itself is in distress, it can use any means at its disposal to attract attention, make known its condition and location and obtain assistance.

Can amateurs turn over the microphone to an emergency officer so he can talk directly to his dispatcher back at the EOC's amateur radio station?

Yes, as long as the control operators supervise and monitor the transmissions.

How may you identify your transmission on Citizens' Band Radio?

B & C - With your old Class D call sign if you had one. You may use a self-assigned identifier or a tactical call.

Which is the best course of action for summoning help via CB?

Call at regular intervals on channel 9 and channel 19 for a response.

What is the advantage of using Family Radio service (FRS) systems?

All of the above - They are readily available at low cost. Operation of FRS radios is simple and requires little training. There is no requirement for licensing to use FRS.

Who may currently license a GMRS system with the FCC?

An individual, for family and personal use.

Which is true of the MURS?

Power output is limited to 2 watts and radios operate in the VHF band.

Which is NOT a major advantage of a mobile communications vehicle?

It provides a place for off-duty personnel to gather and chat.

What are major concerns in using a truck or van for a communications vehicle?

All of the above - Vehicle liability insurance must be purchased. Acquisition and conversion costs can be higher. Mechanical maintenance and upkeep can be costly.

In most situations, which systems should be given highest priority?

VHF and UHF systems.

What would be the best choice for primary system power in a mobile communications vehicle?

RV or marine deep-cycle batteries

What is the best solution for HF antennas for a mobile communications vehicle?

Mobile antenna system(s) on the vehicle, and a NVIS antenna in reserve.

W4EHW HURRICANE WEATHER REPORT FORM

Reporting Station: _____

Geographic location: _____

Location: _____ Lat/Long _____ Degrees North _____ Degrees West

Time of Observation: _____ UTC (note time zone)

Sustained Wind Speed: _____ mph/kph (circle one)

Maximum Gust Speed: _____ mph/kph (circle one)

Wind Direction: _____ degrees

Barometric Pressure: _____ inches or millibars

Comments: _____

Damage reports, rain amounts, etc

From Operator: _____

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