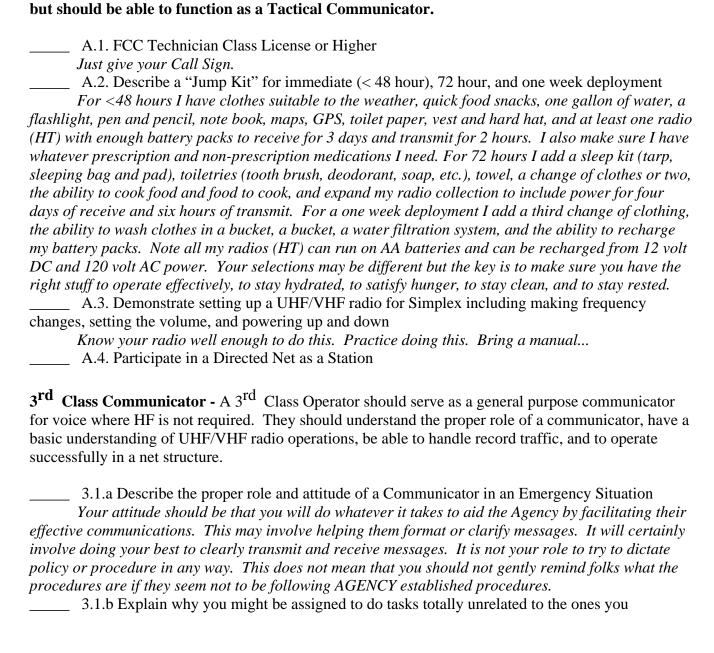
Becoming a 3rd Class Communicator

KG6LRP David Frydenlund

After a two year training cycle it is time for members to demonstrate that they have the skills necessary to be deployed as full fledged communicators. 3rd Class Communicator represents the minimum skill level to function as an independent operator or as a small team leader doing UHF/VHF communications in a post disaster call out. Note that new members will be expected to develop this skill level within two years of joining SCARES.

This article was prepared to help you brush up on your skills before being evaluated. The answers below are the ones that I would give if I were going through the evaluation.

Apprentice Communicator - An Apprentice should be able to deploy for low level duties as a courier or as a shadow operator. An Apprentice may need help in getting set up for repeater use



volunteered for and how to deal with this situation

The Incident Commander is trying to solve a complex problem. He may not have the right mix of resources available to get the job done. He will try to improvise with the resources he has. That means he may attempt to get you to do tasks that have nothing to do with communications. They may even be tasks for which you are unsuited by training, temperament, or ability. It is a good idea to remind the IC function that your primary task is to be a communicator and that you are willing to (if it is indeed true) do other tasks so long as they do not interfere with your primary task. If you are tasked with something which you doubt that you can do, inform the IC of your doubts. If you are tasked with something you can not or will not do, turn down the task with the reason you are turning it down. Good communication is very important here.

_____ 3.1.c Describe the proper relationship between an Emergency Communicator and the Press and other Media

In general your only response to a question from the media should be to refer them to the Public Information Officer, or if there is none, to the IC. It is OK to share that you are a trained volunteer radio operator affiliated with SCARES and your home city and even why you are there. It is NOT OK to comment about ANYTHING related to the incident.

3.2.a Know the ITU Alphabet and Numbers for both send and receive	
There is no magic way to do this. Just learn them: Alpha, Bravo, Charlie, Delta,	Echo, Foxtroi
Golf, Hotel, India, Juliet, Kilo, Lima, Mike, November, Oscar, Papa, Quebec (alt. Kaybel	k), Romeo,
Sierra, Tango, Uniform, Victor, Whiskey, Xray, Yankee, Zulu, One, Too, Thuree (alt. Tree	e), For, Five
(alt. Fife), Six, Seven, Ate, Niner (alt. Nine), Zero (NEVER Oh).	
3.2.b Know Basic Prowords	
There are 27+ of them. You especially need to know how to interpret and use: Ro	oger, Charlie,
Break, Over, Out, Wait, Negative, Affirmative, Say Again, All (or word or letter) After, All	ll (or word or
letter) Before, Figures, Letters, I Spell, Copy	
3.2.c Know the format for ARRL Radiograms	
Carry a copy in your notebook and know what the blocks mean.	

Emergency--Any message having life and death urgency to any person or group of persons, which is transmitted by Amateur Radio in the absence of regular commercial facilities. This includes official messages of welfare agencies during emergencies requesting supplies, materials or instructions vital to relief of stricken populace in emergency areas. During normal times, it will be **very rare**. On cw, RTTY and other digital modes this designation will always be spelled out. When in doubt, do not use it.

3.2.d Know what ARRL radiogram handling instructions mean

What is really important here is to understand Precedence. These are:

PRIORITY--IMPORTANT MESSAGES HAVING A SPECIFIC TIME LIMIT. OFFICIAL MESSAGES NOT COVERED IN THE

EMERGENCY CATEGORY. PRESS DISPATCHES AND OTHER EMERGENCY-RELATED TRAFFIC NOT OF THE UTMOST URGENCY.

Notifications of death or injury in a disaster area, personal or official. Use the abbreviation P on cw.

WELFARE--A MESSAGE THAT IS EITHER A) AN INQUIRY AS TO THE HEALTH AND WELFARE OF AN INDIVIDUAL IN THE DISASTER AREA B) AN ADVISORY OR REPLY FROM THE DISASTER AREA THAT INDICATES ALL IS WELL SHOULD CARRY THIS PRECEDENCE, WHICH IS ABBREVIATED W ON CW. THESE MESSAGES ARE HANDLED AFTER EMERGENCY AND PRIORITY TRAFFIC BUT BEFORE ROUTINE.

Routine--Most traffic normal times will bear this designation. In disaster situations, traffic labeled Routine (R on cw) should be handled last, or not at all when circuits are busy with Emergency, Priority or Welfare traffic.

It is also useful to know how to interpret the H group of handling instructions.

3.2.e Know how to log messages
Messages are logged by Originator, Number, Time, who you received it from, when you
received it, who you sent (gave) it to, when you passed it on. Sometimes there is also a summary of
content or title. Log messages in the format you are given, unless you are not given a format. Then,
log messages using the information above.
3.2.f Know how to originate a message
Make sure the message is understandable and legible. Encourage the originator to make it brief and concise. Encourage the originator to avoid abbreviations and acronyms (use plain language). Make sure the message has an originator, a number, a precedence, and an addressee and that it is signed off by the originator or their agent. Then transmit and log the message.
minutes before he transmits again. The rest of the time Tactical Call Signs are used to identify stations.
3.3.a Explain the difference between Simplex and Duplex operations Simplex operations mean communications can go only one way at a time. If only one frequency is in use and it is not multiplexed, the communication is Simplex. Only one person can talk at a time. Duplex communications allow two communications to be handled simultaneously. In radio this is ordinarily done by using two frequencies. This could mean that you could transmit and receive at the same time. In ordinary Ham use it means that a repeater can receive your signal on one frequency and
simultaneously transmit it on another (offset) frequency. For 3 rd Class purposes, Simplex means direct station to station by single frequency. Duplex means using a repeater.
3.3.b Explain why "channels" might be used to designate frequencies
It is easier to remember and easier to communicate "Channel Two" than 146.415 Mhz. This is
even more true if the description includes tones and offsets. On many radios it is much easier to
change to preset channels than to set frequencies. This makes it easier to train and coach operators.
This becomes very important if using radios when you are cold, wet, and tired and your brain function
starts to shut down.
3.3.c Explain how "tones" are used for CTCSS and PL
Most modern radios have a circuit which constantly listens for low frequency audio tones.
When it hears a designated tone the radio takes some action. In Simplex operation this action is to
turn on the audio amplifier. If tones are set, no tone received, no sound out. This screens out
unwanted transmissions. Unfortunately it also makes it impossible to listen for an open channel before
you transmit. (Though some radios flash an LED when they are hearing a signal even if they do not
pass that signal through to you). This use of tones is generally referred to as "Privacy".
In Duplex operations the tones are frequently used to tell the repeater to actually repeat the
message. No designated tone, no repeater transmission. This helps prevent false keying of the repeater. There are some very sophisticated uses of tones that are way beyond what you need to know

