



# **Radio Operator Task Book**

## **Individual Task List and Qualification Standards**

### **Western Washington Section, District 5, Pierce County ARES**

(as of 13 January 2020)

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### Emergency Communications Qualification

Verification / Certification of Completion

Qualification for ARES District 5 Member

<b>Name:</b>	<b>Callsign:</b>	<b>Emer. Worker #:</b>	<b>Email:</b>
<b>Team:</b>	<b>Position (RADO/THSP, RO, EC):</b>		<b>Phone:</b>

### Final Evaluator’s Verification of Task Completion

I verify that all below listed tasks have been performed or discussed and are documented with the appropriate initials of qualified Emergency Communication Team member(s).

I verify that \_\_\_\_\_ (Callsign) \_\_\_\_\_ has met all requirements in both training and certification and is recommended for qualification as an Emergency Communications Team member at the following level:

Basic Operator Level		Intermediate Operator Level		Advanced Operator Level	
<b>Date:</b>	<b>Initials:</b>	<b>Date:</b>	<b>Initials:</b>	<b>Date:</b>	<b>Initials:</b>

Recommended:

ARES Team EC or EOC/Fixed Site RO:

Print Name	Signature	Date

### District 5 ARES Certification of Operator Proficiency Level

I certify that \_\_\_\_\_ (Callsign) \_\_\_\_\_ has met all requirements for qualification as an Emergency Communications Team member and is Qualified as an EMCOMM/AUXCOMM Team member at the following level:

Basic Operator Level		Intermediate Operator Level		Advanced Operator Level	
<b>Date:</b>	<b>Initials:</b>	<b>Date:</b>	<b>Initials:</b>	<b>Date:</b>	<b>Initials:</b>

Approved:

ARES Training Officer or District Emergency Coordinator:

Print Name	Signature	Date

<b>Description:</b>	The Radio Operator Task Book is a <u>Voluntary</u> Participation document that enables those ARES Radio Operators electing to participate in the WWA Section, District 5, Pierce County ARES training and exercise plan to track and document their training and proficiency. This Task Book gives ARES Radio Operators a standardized guide to follow if they seek increasing levels of proficiency and/or responsibility.
<b>Purpose:</b>	The purpose of this Radio Operator Task Book is to provide District 5 ARES leadership and radio operators with a working document of Tasks, Skills, and Capabilities to track and document a Radio Operator's level of proficiency. This document is intended to be used to gauge Radio Operator training and capabilities in a post-disaster, deployed environment, as well as for steady state operations. This Document may be used by Emergency Management Officials during incident credentialing. Radio Operators are responsible for maintaining their Task Books and having them during training and assignments.
<b>Intent:</b>	It is the intent of the WWA Section, District 5, Pierce County ARES Leadership and the Training and Exercise Committee to provide this Task Book as an outline of elective Goals and a pathway to achieve them. Operators who wish to participate may use the information in this working document to identify areas for their improvement on a <u>voluntary</u> basis.
<b>Scope:</b>	This Task Book applies to Western Washington Section, District 5, Pierce County ARES personnel while conducting Amateur Radio operations within District 5. Members conducting operations outside the District 5 Area Of Responsibility (AOR) or in support of other organizations should request additional information, guidance, and documentation from the Served Agency or supported organization to identify additional training and certification requirements.
<b>Levels of Proficiency</b>	This document outlines three levels of proficiency for Radio Operators, Basic (Level 1), Intermediate (Level 2), and Advanced (Level 3). Each level will be described in detail below. These levels correspond with the ARES Strategic Plan and will be updated to support the ARES Operator Task Books as they become available.
<b>Basic (Level 1):</b>	The Basic Level is the entry level designed for the Radio Amateur who has demonstrated interest in participating in ARES but may not be ready for the commitment of full membership and WA State Emergency Management Department (EMD) deployability. This Level assumes certain skills based on the member having obtained an amateur radio license. It is recommended to have a Dual Band Handheld Radio (HT) or additional equipment at this level.

**Intermediate  
(Level 2):**

The Intermediate Level is designed for the Radio Amateur who has demonstrated a continued interest in and commitment to participating in ARES, has met initial ICS training requirements, and is WA State EMD deployable. This level is intended for an ARES member who will operate as part of a team or in a limited individual capacity. The recommended equipment at this level is Dual Band/Dual VFO equipment or higher-level equipment.

**Advanced  
(Level 3):**

The Advanced Level is designed for the Radio Amateur who has demonstrated a proficiency in Emergency Communications operations, has demonstrated the ability to work as a member of a team or individually, and wants to continue his or her service as a mentor/trainer and in positions of increasing responsibility. This level is intended for a proficient ARES member who will operate either static or mobile in support of a served agency or on specific independent tasks. It is recommended to have a General Class License and multiple radios/capabilities with the potential to transmit in the HF spectrum.

**Responsibilities:****Individual:**

The ARES Radio Operator has the primary responsibility for maintaining this document. This is a voluntary program and Radio Operators are responsible for keeping their personal record up to date. It is the responsibility of participating ARES members to have their Task Books with them during all training sessions, exercises, and assignments. Radio Operators should seek out Instructors, Evaluators, and Radio Officers or Team Emergency Coordinator to ensure that their training/proficiency is being documented at each training session, exercise, or event.

**Leadership:**

Training session Instructors, Evaluators, fixed Site Radio Officers, and Team Emergency Coordinators will initial the appropriate line items at each session/exercise/event. Fixed site Radio Officers and Emergency Coordinators will be responsible to verify the Radio Operators' training/proficiency level once training has been conducted and proficiency demonstrated. Prior known experience may be substituted for some listed tasks. EOC/ECC and/or Team training sessions are highly encouraged and may be used to satisfy requirements. Fixed Site Radio Officers and Team Emergency Coordinators are highly encouraged to maintain a companion document to track their Radio Operators' training and proficiency.

**Training and Exercise Committee:**

The Training and Exercise (T&E) Committee will use this document to prioritize training and to identify training deficiencies across the organization. It is the goal of the T&E Committee to cover as many of the subjects contained herein as possible within a calendar year.

## FCC, DISTRICT 5, ARRL, NWS, AND OTHER TRAINING & LICENSING TASKS

CODE	Task	Note:	Status	Date of Task Completion	Evaluator Initial	BASIC (LVL-1)	INTERMEDIATE (LVL-2)	Advanced (LVL-3)	Obtained Through
<b>FCC, DISTRICT 5, ARRL, NWS, AND OTHER TRAINING &amp; LICENSING TASKS</b>									
R-01	Obtain Active Amateur Radio License (Technician)					R	R	N/A	FCC Test
R-02	Obtain Active Amateur Radio License (General)						S	R	FCC Test
R-03	Obtain Active Amateur Radio License (Amateur Extra)							A	FCC Test
R-04	Register with ARES District 5					R	R	R	Application
R-05	Possess a Washington State Emergency Worker Card						R	R	PC DEM
R-06	Establish Mail Chimp account (mass email distribution)	(1)				R	R	R	Coordinator
R-07	Enroll in Everbridge (Pierce County mass notification system)	(1)				S	R	R	Coordinator
R-08	Have a current District 5 website account (check regularly)	(1)				R	R	R	Coordinator
R-09	Be a member of the District Facebook Group (check regularly)	(1)				S	S	S	Online
R-10	Complete ARRL EC-001 Introduction to Emergency Communications					S	R	R	Online
R-11	Complete ARRL EC-016 Public Service & EMCOMM Management							R	Online
R-12	Complete PR-101 (EC-015) Public Information Officer (PIO) Training							S	Online
R-13	Attend Auxiliary Communications Emergency Solutions (ACES) (Certificate of completion will count towards additional tasks)					S	S	S	Classroom
R-14	SKYWARN: Role of Skywarn Spotter	(Every two Years)				S	S	S	Online
R-15	SKYWARN: Convective Basics	(Every two Years)				S	S	S	Online
R-16	SKYWARN: In seat course	(Every two Years)					A	A	Classroom
R-17	SKYWARN: Official Observer ID	(Every two Years)					A	A	NWS Issued
R-18	Have First Aid Certification	(current)				S	S	S	Classroom
R-19	Have Cardiopulmonary Resuscitation (CPR) Certification	(current)				S	S	S	Classroom
R-20	Have Automated External Defibrillator (AED) Certification	(current)				S	S	S	Classroom
R-21	Attend Psychological First Aid	(PCNET, free course)				S	S	S	Classroom

**(1) Mass Notification Protocols need to be updated regularly**

**Key:** S – Suggested, R – Required, A – Advanced Knowledge/Skills

### ICS TRAINING COURSES

CODE	Task	Note:	Status	Date of Task Completion	Evaluator Initial	BASIC (LVL-1)	INTERMEDIATE (LVL-2)	Advanced (LVL-3)	Obtained Through
<b>ICS TRAINING COURSES</b>									
ICS-01	IS-100 Introduction to Incident Command System (ICS)	(1)				S	R	R	Web or Class
ICS-02	IS-200 ICS for Single Resources and Initial Action Incidents	(1)				S	R	R	Web or Class
ICS-03	IS-700 National Incident Management System (NIMS)	(1)				S	R	R	Web or Class
ICS-04	IS-800 National Response Framework (NRF), an Introduction	(2)					S	R	Web or Class
ICS-05	ICS-300 Intermediate ICS for Expanding Incidents	(2)					S	R	Classroom
ICS-06	ICS-400 Advanced ICS for Command and General Staff	(2)					S	R	Classroom
ICS-07	IS-35.18 Safety Orientation						S	R	Online
ICS-08	IS-230 Fundamentals of Emergency Management	(3)					S	S	Online
ICS-09	IS-235 Emergency Planning	(3)					S	S	Online
ICS-10	IS-240 Leadership and Influence	(3)					S	S	Online
ICS-11	IS-241 Decision Making and Problem Solving	(3)					S	S	Online
ICS-12	IS-242 Effective Communication	(3)					S	S	Online
ICS-13	IS-244 Developing and Managing Volunteers	(3)					S	S	Online
ICS-14	IS-288 Role of Voluntary Orgs. In Emergency Management	(3)				S	S	S	Online
ICS-15	IS-775 or IS-2200 Basic E.O.C. Functions	(3)				S	S	S	Online
ICS-16	IS-120.c Introduction to Exercises						S	S	Online
ICS-17	IS-130.a How to be an Exercise Evaluator							A	Online
ICS-18	FEMA PDS Certificate	(3)					S	S	Online
ICS-19	Homeland Security Exercise Evaluation Program (HSEEP)							A	Classroom
ICS-20	NIMS/ICS Auxiliary Communications Course AUXCOMM							A	Classroom
ICS-21	NIMS/ICS Communications Unit Leader (COML)							A	Classroom
ICS-22	NIMS/ICS Communications Technician (COMT)							A	Classroom

**Key:** S – Suggested, R – Required, A – Advanced Knowledge/Skills

(1) Requirement for Emergency Workers Card

(2) ARRL/ARES Requirement

(3) ARRL/ARES highly encouraged IAW the Strategic Plan



## ARES GENERAL KNOWLEDGE (ORIENTATION COURSE) TASKS

CODE	Task	Status	Date of Task Completion	Evaluator Initials	BASIC (LVL-1)	INTERMEDIATE (LVL-2)	Advanced (LVL-3)	Obtained Through	
<b>ARES GENERAL KNOWLEDGE (ORIENTATION COURSE)</b>									
<b>KO-01</b>	<p><b>Attend District 5, ARES Orientation:</b></p> <ol style="list-style-type: none"> <li>1. Introduction to District 5 ARES</li> <li>2. Emergency Management Organization and Structure (National, State, County, Local)</li> <li>3. Overview of FEMA, NIMS, and ICS</li> <li>4. Overview of WA State EMD, Pierce County EM</li> <li>5. Types of Disasters (Natural, Man Made, Technological, Terrorism)</li> <li>6. Local All Hazards Threats/Risks</li> <li>7. Amateur Radio Role in Emergency Communications</li> <li>8. District 5 ARES Concept of Operations</li> <li>9. Introduction to the District 5 Website</li> <li>10. District 5 ARES Mass Notification Protocols</li> <li>11. ARRL ARES Manual overview</li> <li>12. District 5 ARES Training/Digital Manual Familiarization</li> <li>13. District 5 ARFOG Familiarization</li> <li>14. Radios: An Overview</li> <li>15. Alert Levels and Activation Criteria</li> <li>16. Notification Procedures</li> <li>17. Disaster Initial Actions</li> <li>18. NET Types Overview</li> <li>19. Understand ARRL/ITU/NATO Phonetics</li> <li>20. Know where to locate ARES NET and Call Frequencies</li> <li>21. Understand Communications Protocols and Etiquette</li> <li>22. Tactical Callsign usage</li> <li>23. Understand Wilderness/Urban Protocol</li> <li>24. Radio Amateur Civil Emergency Service (RACES) Overview</li> <li>25. Public Service Events Overview</li> <li>26. Pierce County EOC Radio Room Orientation</li> </ol>					R	R	R	Classroom

**Key:** S – Suggested, R – Required, A – Advanced Knowledge/Skills



## RADIO EQUIPMENT PROFICIENCY TASKS

CODE	Task	Status	Date of Task Completion	Evaluator Initial	BASIC (LVL-1)	INTERMEDIATE (LVL-2)	Advanced (LVL-3)	Obtained Through
<b>RADIO EQUIPMENT PROFICIENCY</b>								
EQ-01	<b>HANDHELD RADIOS</b> Adjust power, squelch, VFO/Memory Input band, change frequency, and save to memory (Simplex) Input band, frequency, tone, offset, and save to memory (Repeater) Program an HT according to an ICS-205 (manual or computer)				R	R	R	Hands On
EQ-02	<b>MOBILE/PORTABLE RADIOS</b> Adjust power, squelch, VFO/Memory Input band, change frequency, and save to memory (Simplex) Input band, frequency, tone, offset, and save to mem. (Repeater) Program a mobile according to an ICS-205 (manual or computer)				S	R	R	Hands On
EQ-03	<b>HF RADIOS</b> Set band, mode, power, frequency, audio, and squelch Use power/SWR meter Program an HF Radio (manual or computer)					S	R	Hands On
EQ-04	<b>EOC/ECC/Fixed Site RADIO ROOM</b> Orientation to Radio Rooms, Operating Stations, Locations (Team Level location specific training and certification)				S	R	R	Hands On
EQ-05	<b>FIELD RADIO PROFICIENCY</b> Demonstrate the ability to set up and operate a mobile/field communication site with HF/VHF/UHF multi-mode capability *				S	R	R	Hands On
EQ-06	<b>CROSS BAND VHF/UHF</b> Demonstrate the ability to set up a VHF/UHF cross band repeater				S	R	R	Hands On
EQ-07	Demonstrate proficiency using District 5 Go Box and Antennas				S	R	R	Hands On
EQ-08	Demonstrate the ability to explain, coach, teach and mentor radio equipment proficiency Tasks/Skills					S	R	Hands On

\* Specific capabilities will coincide with operator’s role/level

Key: S – Suggested, R – Required, A – Advanced Knowledge/Skills

## RADIO OPERATIONS PROFICIENCY TASKS

CODE	Task	Status	Date of Task Completion	Evaluator Initial	BASIC (LVL-1)	INTERMEDIATE (LVL-2)	Advanced (LVL-3)	Obtained Through
<b>RADIO OPERATIONS PROFICIENCY</b>								
RO-01	<b>Demonstrate the ability to regularly participate in ARES NETs</b> Identify ARES NET frequencies and schedules Check in, use normal NET protocols, and proper phonetics				S	R	R	Hands On
RO-02	<b>Voice Traffic (Able to Create, Send, Receive and Log)</b> ICS-213, ARFOG Formats, NTS Radiogram, Traffic procedures				S	R	R	Hands On
RO-03	<b>Digital Traffic (Able to Create, Send, Receive and Log)</b> ICS 213, ARFOG Formats, NTS Radiogram, Traffic procedures				S	R	R	Hands On
RO-04	<b>Demonstrate ability to Conduct an ARES Net</b> Find/Use a Preamble Conduct Roll Call, Take Check-Ins Use NET Control logging and reporting procedures/forms				S	R	R	Hands On
RO-05	Serve as an ARES Team Net Control (regularly scheduled NET)					S	R	Hands On
RO-06	Serve as an ARES District Net Control (regularly scheduled NET)					S	R	Hands On
RO-07	Serve as a Net Control during an Exercise (District, Team, Traffic)					S	R	Hands On
RO-08	Serve as a Washington State EMD WSEN Net Control					S	S	Hands On
RO-09	Participate in a Public Service Event (annually)				S	S	S	Hands On
RO-10	Serve as a RADO in an EOC/ECC, Shelter, Hospital, or Fire Station during an exercise				S	R	R	Hands On
RO-11	Serve as a Radio Officer (RO) as needed					A	A	Assignment
RO-12	Serve as a Team Emergency Coordinator (EC) or Assistant (AEC) as needed					A	A	Assignment
RO-13	Demonstrate the ability to explain, coach, teach and mentor radio operations proficiency Tasks/Skills					S	R	Hands On

**Key:** S – Suggested, R – Required, A – Advanced Knowledge/Skills

## COMMUNICATIONS EQUIPMENT / TECHNICIAN PROFICIENCY TASKS

CODE	Task	Note:	Status	Date of Task Completion	Evaluator Initial	BASIC (LVL-1)	INTERMEDIATE (LVL-2)	Advanced (LVL-3)	Obtained Through
<b>COMMUNICATIONS EQUIPMENT / TECHNICIAN PROFICIENCY</b>									
CE-1	Build a simple antenna (Ground plane, J-pole, Expedient)					S	R	R	Hands On
CE-2	Build a dipole antenna					S	R	R	Hands On
CE-3	Construct an NVIS antenna					S	R	R	Hands On
CE-4	Assemble a Powerpole connector					S	R	R	Hands On
CE-5	Install a PL-259 connector to coaxial (coax) cable	(crimp or solder)				S	R	R	Hands On
CE-6	Solder a PL-259 connector tip to coax cable					S	R	R	Hands On
CE-7	Troubleshoot coax cable deficiencies					S	R	R	Hands On
CE-8	Troubleshoot power deficiencies					S	R	R	Hands On
CE-9	Troubleshoot antenna deficiencies					S	R	R	Hands On
CE-10	Identify common coax connectors/adapters					S	R	R	Hands On
CE-11	Demonstrate the ability to operate a multimeter					S	R	R	Hands On
CE-12	Demonstrate the ability to use a simple SWR meter					S	R	R	Hands On
CE-13	Demonstrate the ability to use an Antenna Analyzer					S	R	R	Hands On

**Note:**  
 These tasks are basic communications technician tasks that may be required in a field operating environment or when establishing operations from a new or temporary site. ARES operators may need to establish operations from these types of sites in a post disaster environment, to support new Served Agencies, or Public Service events.

**Key: S – Suggested, R – Required, A – Advanced Knowledge/Skills**



## DIGITAL OPERATIONS PROFICIENCY TASKS

CODE	Task	Status	Date of Task Completion	Evaluator Initial	BASIC (LVL-1)	INTERMEDIATE (LVL-2)	Advanced (LVL-3)	Obtained Through
<b>DIGITAL PROFICIENCY</b>								
D-01	<b>Digital Communications Training Manual course completion</b> Knowledgeable about Digital Communications value Understand basic Digital Communications terminology				S	S	R	Digital Course
D-02	Demonstrate proficiency in voice coordination of Digital Traffic				S	S	R	Hands On
D-03	<b>Demonstrate proficiency in WINLINK (Gateway, Digipeater)</b> Install Software, Setup, Send, Receive, Log, Acknowledge				S	S	R	Hands On
D-04	<b>Demonstrate proficiency in WINLINK (P2P)</b> Install Software, Send, Receive, Log, Acknowledge				S	S	R	Hands On
D-05	<b>Demonstrate proficiency in WINMOR/ARDOP/VARA</b> Install Software, Send, Receive, Log, Acknowledge				S	S	R	Hands On
D-06	<b>Demonstrate proficiency in VHF/UHF FLDIGI (FLMSG, FLAMP)</b> Install Software, Send, Receive, Log, Acknowledge					S	R	Hands On
D-07	<b>Demonstrate proficiency in APRS</b> Setup, Beacon, Send, Receive, Log, Acknowledge					S	S	Hands On
D-08	<b>Demonstrate proficiency in PACTOR</b> Install Software, Send, Receive, Log, Acknowledge						A	Hands On
D-09	Demonstrate the ability to explain, coach, teach and mentor Digital Operations proficiency						A	Hands On

**Key:** S – Suggested, R – Required, A – Advanced Knowledge/Skills

## TRAINING AND EXERCISE SUPPORT TASKS

CODE	Task	Status	Date of Task Completion	Evaluator Initial	BASIC (LVL-1)	INTERMEDIATE (LVL-2)	Advanced (LVL-3)	Obtained Through
<b>EXERCISES AND DRILLS</b>								
<b>EX-01</b>	<b>Demonstrate understanding of the exercise program:</b> Demonstrate ability to locate ARES exercise information (EXPLAN, Player Brief, Event Maps, Tri-fold) Demonstrate ability to identify exercise components (Scenario, Communication plan, Objectives and Tasks) Understand exercise process and exercise types (Seminar, Workshop, Drill, Functional exercise, Full scale exercise)					S	R	Hands On
<b>EX-02</b>	<b>Demonstrate ability to plan and prepare small scale ARES drills</b> (Scenario, Communication plan, Objectives, Tasks and Reporting)					S	A	Hands On
<b>EX-03</b>	<b>Demonstrate proficiency in using exercise control documents</b> Master Scenario Event List (MSEL) Exercise Evaluator Guide (EEG)					S	A	Hands On
<b>EX-04</b>	<b>Understand, participate in, and incorporate:</b> Exercise Analysis Lessons Learned Corrective Action Process					S	A	Hands On
<b>EX-05</b>	Participate in ARES exercises (drills/ functionals)				S	R	R	Hands On
<b>EX-06</b>	Participate in the annual Simulated Emergency Test (SET)				S	S	R	Hands On
<b>EX-07</b>	Serve as an exercise Evaluator (IS-130.a required) or SIMCELL					S	S	Hands On
<b>EX-08</b>	Participate in a post exercise Hot Wash				S	R	R	Hands On
<b>EX-09</b>	Conduct a post exercise Hot Wash as a facilitator						A	Hands On
<b>EX-10</b>	Participate as an instructor in an ARES Training Course (present a training session at the Team or District level)					S	S	Hands On

**Key:** S – Suggested, R – Required, A – Advanced Knowledge/Skills

## FORMS AND FORMAT TASKS

CODE	Task	Note:	Status	Date of Task Completion	Evaluator Initial	BASIC (LVL-1)	INTERMEDIATE (LVL-2)	Advanced (LVL-3)	Obtained Through
<b>FORMS AND FORMATS</b>									
F-01	ICS-201 Incident Briefing	(2)					S	S	Classroom
F-02	ICS-202 Incident Objectives	(2)					S	S	Classroom
F-03	ICS-203 Organization Assignment List	(2)					S	S	Classroom
F-04	ICS-204 Assignment List	(2)					S	S	Classroom
F-05	ICS-205 Communication Plan	(1)				S	R	R	Hands On
F-06	ICS-206 Medical Plan	(2)					S	S	Classroom
F-07	ICS-207 Incident Organization Chart	(2)					S	S	Classroom
F-08	ICS-208 Safety Message/Plan	(2)					S	S	Classroom
F-09	ICS-213 General Message Form	(1)				S	R	R	Hands On
F-10	ICS-213RR Resource Request Message	(1)				S	S	R	Hands On
F-11	ICS-214 Unit Activity Log	(1)				S	R	R	Hands On
F-12	ICS-215A Incident Action Plan Safety Analysis	(2)				S	S	S	Classroom
F-13	ICS-309 Communications Log	(1)				S	R	R	Hands On
F-14	Activation Report (ARFOG)	(1)				S	R	R	Hands On
F-15	Situation Report (ARFOG)	(1)				S	R	R	Hands On
F-16	Demobilization Report (ARFOG)	(1)				S	R	R	Hands On
F-17	SPOT Report (ARFOG)	(1)				S	R	R	Hands On
F-18	Earthquake Report (ARFOG)	(1)				S	R	R	Hands On
F-19	ARRL Radiogram	(1)					S	R	Hands On
(1) Demonstrate proficiency in understanding and use (2) Understand the use of and able to identify critical information									

**Key:** S – Suggested, R – Required, A – Advanced Knowledge/Skills



## Acronyms

<b>ACES</b>	<b>Auxiliary Communications Emergency Solutions</b>	<b>HT</b>	<b>Handheld Transceiver (Handy Talkie)</b>
<b>AEC</b>	<b>Assistant Emergency Coordinator</b>	<b>ICS</b>	<b>Incident Command System</b>
<b>AED</b>	<b>Automatic Electronic Defibrillator</b>	<b>ITU</b>	<b>International Telecommunications Union</b>
<b>AOR</b>	<b>Area Of Responsibility</b>	<b>NATO</b>	<b>North Atlantic Treaty Organization</b>
<b>APRS</b>	<b>Automatic Packet Reporting System</b>	<b>NBEMS</b>	<b>Narrow Band Emergency Messaging Software</b>
<b>ARDOP</b>	<b>Amateur Radio Digital Open Protocol</b>	<b>NIMS</b>	<b>National Incident Management System</b>
<b>ARES</b>	<b>Amateur Radio Emergency Service</b>	<b>NTS</b>	<b>National Traffic System</b>
<b>ARFOG</b>	<b>Amateur Radio Field Operating Guide</b>	<b>NRF</b>	<b>National Response Framework</b>
<b>ARRL</b>	<b>American Radio Relay League</b>	<b>NWS</b>	<b>National Weather Service</b>
<b>AUXCOMM</b>	<b>Auxiliary Communications</b>	<b>P2P</b>	<b>Peer-to-Peer</b>
<b>COAX</b>	<b>Coaxial Cable</b>	<b>PACE</b>	<b>Primary, Alternate, Contingency, Emergency</b>
<b>CPR</b>	<b>Cardiopulmonary Resuscitation</b>	<b>PIO</b>	<b>Public Information Officer</b>
<b>DEC</b>	<b>District Emergency Coordinator</b>	<b>RADO</b>	<b>Radio Operator</b>
<b>DEM</b>	<b>Pierce County Department of Emergency Management</b>	<b>RFI</b>	<b>Radio Frequency Interference</b>
<b>DOS</b>	<b>Day Of Supply</b>	<b>RO</b>	<b>Radio Officer</b>
<b>EMD</b>	<b>Washington State Emergency Management Division</b>	<b>SET</b>	<b>Simulated Emergency Test</b>
<b>EC</b>	<b>Emergency Coordinator</b>	<b>SKYWARN</b>	<b>NWS Weather observer/reporting program</b>
<b>EMCOMM</b>	<b>Emergency Communications</b>	<b>SWR</b>	<b>Standing Wave Ratio</b>
<b>EOC</b>	<b>Emergency Operations Center</b>	<b>UHF</b>	<b>Ultra High Frequency</b>
<b>ESF</b>	<b>Emergency Support Function</b>	<b>VFO</b>	<b>Variable Frequency Oscillator</b>
<b>FEMA</b>	<b>Federal Emergency Management Agency</b>	<b>VHF</b>	<b>Very High Frequency</b>
<b>FCC</b>	<b>Federal Communications Commission</b>	<b>WINLINK</b>	<b>Worldwide Radio Messaging system</b>
<b>FLAMP</b>	<b>Part of the NBEMS (FLDIGI) software suite</b>	<b>WINMOR</b>	<b>HF transport mode for WINLINK</b>
<b>FLDIGI</b>	<b>Fast Light Digital Modem</b>	<b>WSEN</b>	<b>Washington State Emergency Network</b>
<b>FLMSG</b>	<b>Part of the NBEMS (FLDIGI) software suite</b>		
<b>HF</b>	<b>High Frequency</b>		
<b>HSEEP</b>	<b>Homeland Security Exercise and Evaluation Program</b>		