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Field Operations - Type III Part A

Test your HT

- Make sure your radio is programmed to these frequencies:
 - Primary 147.525 Simplex, No Tone
 - Backup 1 446.500 Simplex, No Tone
 - Backup 2 146.490 Simplex, No Tone
- Set your radio to its lowest power setting.
- Call Net Control using your FCC Call Sign for a radio Check.

You must use a headset or ear bud

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Field Operations Type III Part A



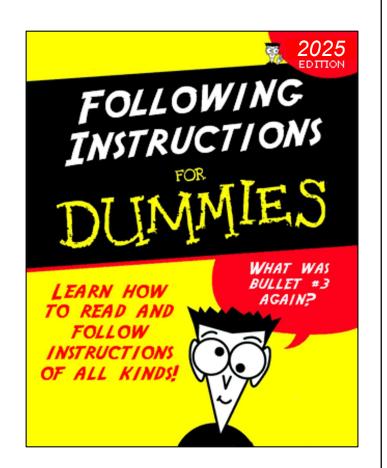
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Housekeeping

- Introductions
- Pen/pencil, paper, course materials
- Cell phones
- Side conversations
- Questions
- Breaks <u>Only</u> water allowed in this room No food or other drinks
- Restrooms
- In case of emergency
- PARKING move at first break if not parked across the street



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At the start of class you will be assigned a student number for the class exercises reviewing the homework.

Please complete the homework before coming to class.

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Why Are We Using Radios Today

- We will practice using Tactical Calls and our FCC Call Signs during class discussions today.
- This will help build muscle memory for the correct way to use the radio.
- The instructors Tactical Call is Instructor, Yours is Student XX.
- To ask a question use your radio and say "Instructor, this is Student XX.
- The instructor will call you back by your Tactical Call.
- Ask your questions and end with your FCC Call Sign.
- If the Instructor asks you to respond to a question, reply with your Tactical Call, give your answer, and end with your FCC Call Sign.

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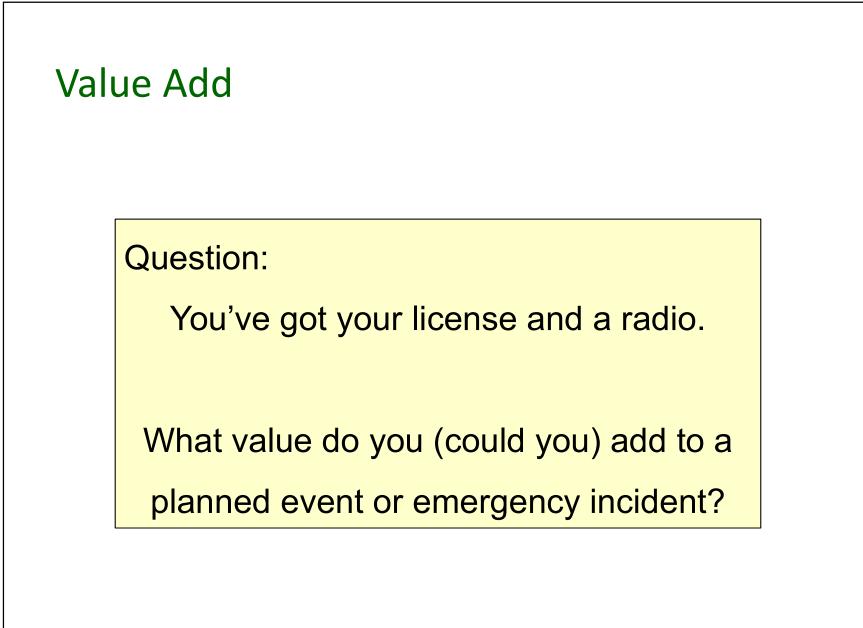


- W6XRL4: Herman Munster
 - Father in 1960's sitcom "The Munsters"
 - Was an aspiring amateur radio operator
 - Call sign: W6XRL4

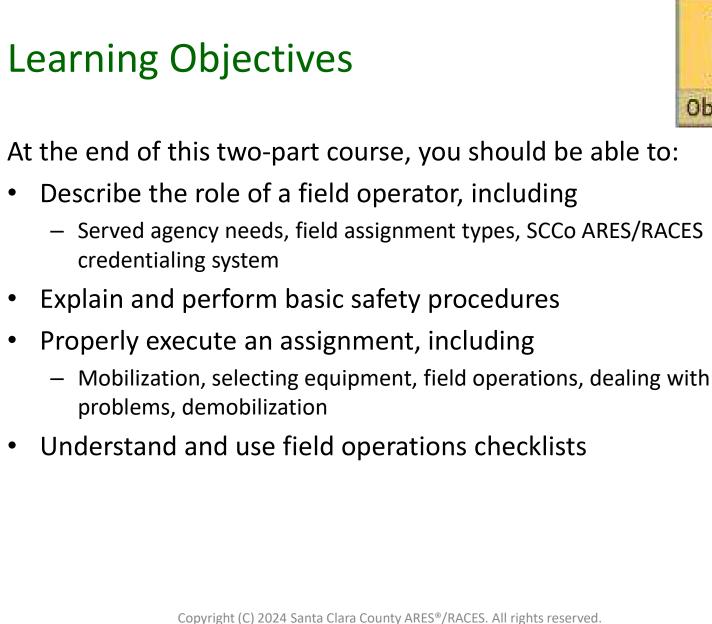


• This is not a real call sign but we will treat it that way for our class today.

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2 3 Objectives

a

Agenda

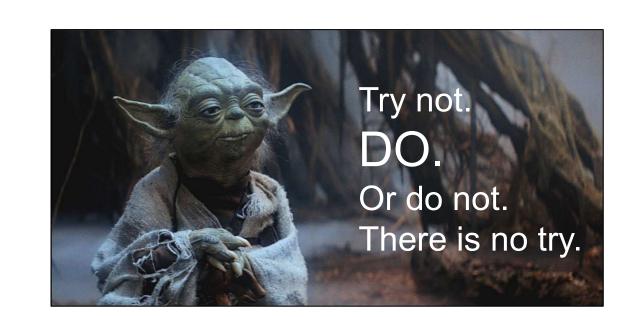
- Mastering Field Communications
- Supporting Our Served Agencies
- Field Communications Assignments
- Credentials
- Safety
- Simulated deployment
 - Mobilization
 - Setting up a field station

The second class will continue with:

 Type III Field Equipment, Type II Field Equipment, On Site Operations, Traffic Types, Advanced Techniques, Dealing With Problems, Demobilization, Checklists

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Mastering Field Communications

Be an expert at field radio communications

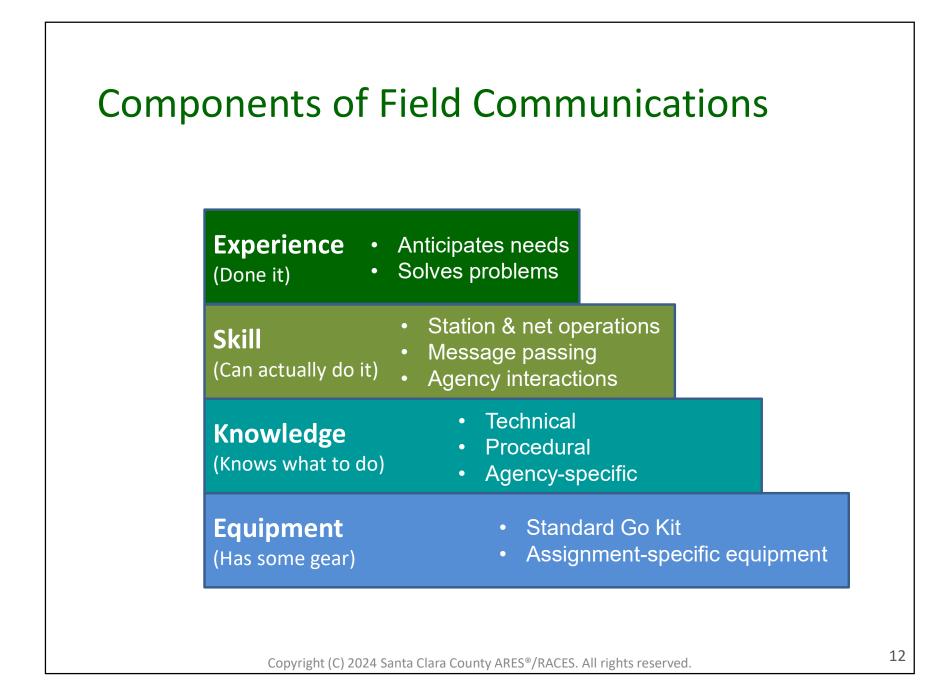
5m

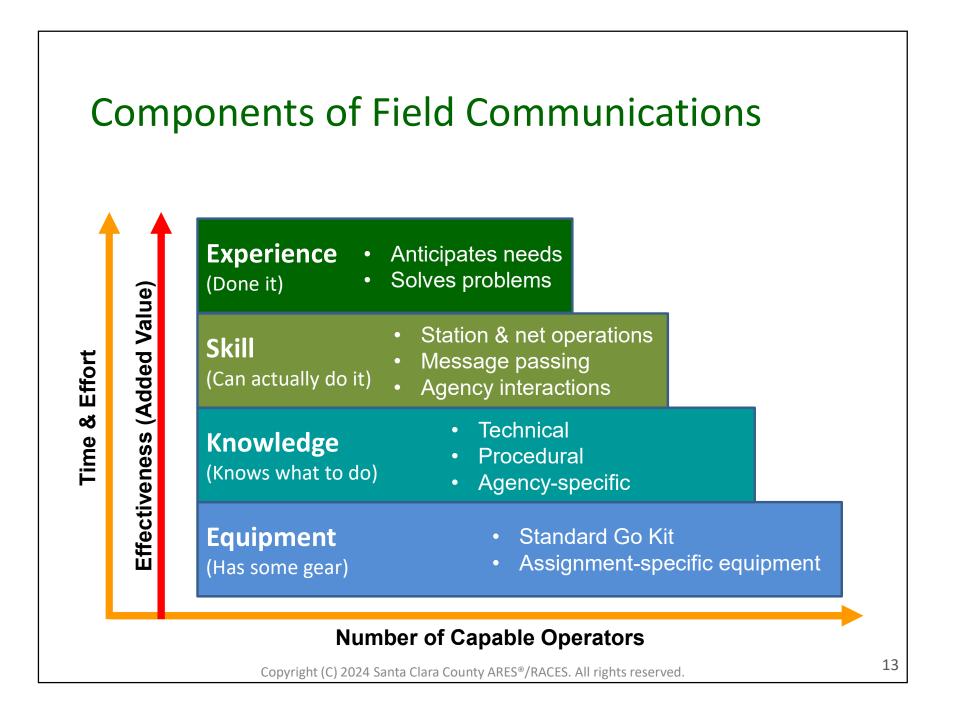
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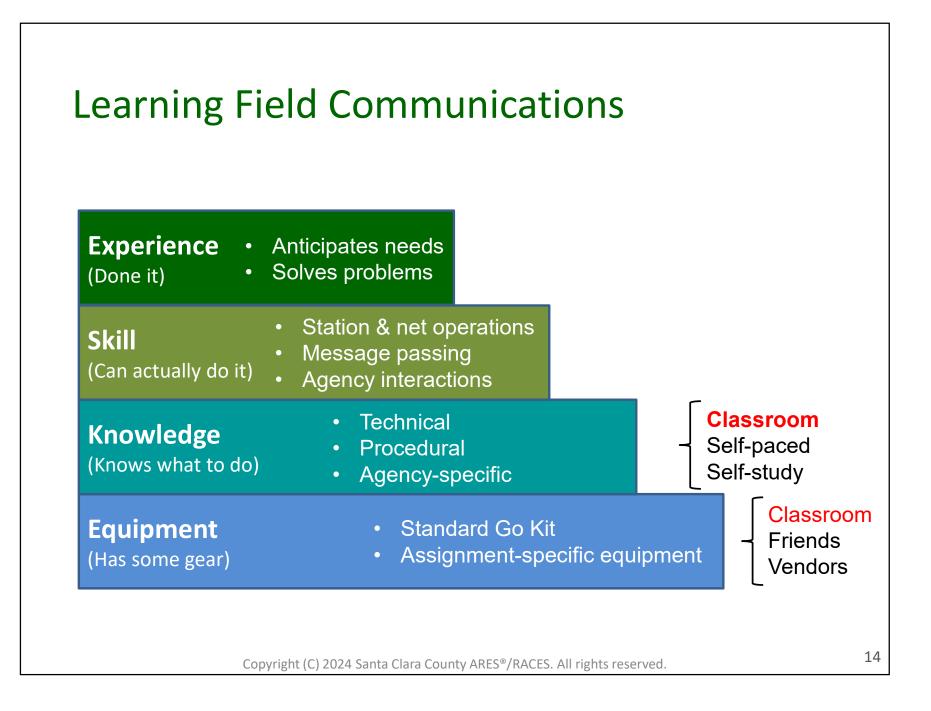
What Does It Take To Be A Great Field Communicator?

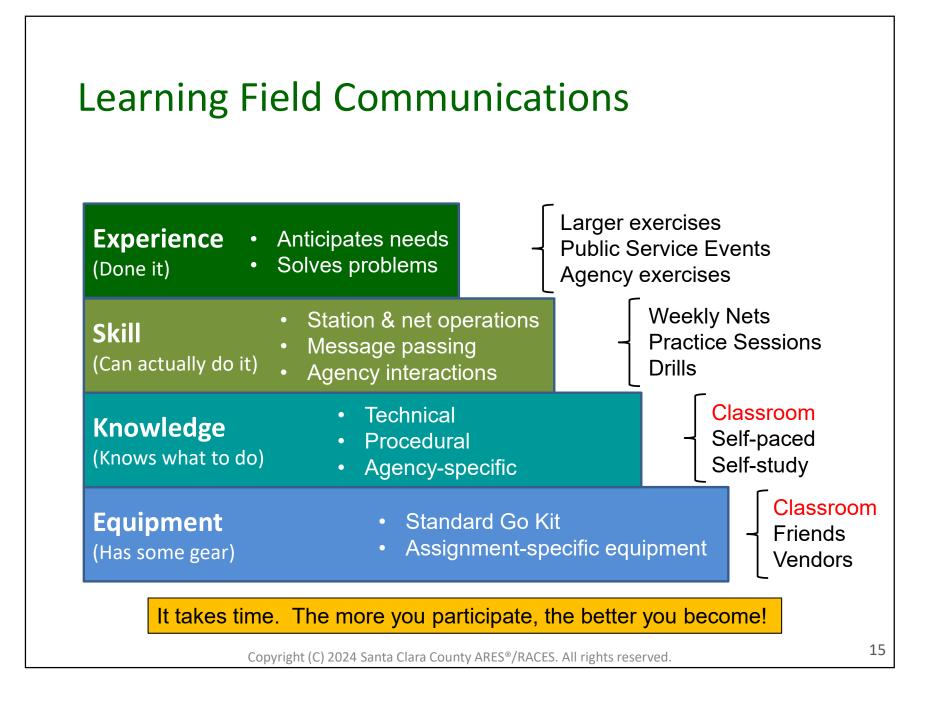
- Merriam-Webster says:
 - com·mu·ni·cate: to transmit information, thought, or feeling so that it is satisfactorily received or understood
- Just about anyone can do the first part
 - ... transmit information, thought, or feeling ...
- The second part is the hard part!
 - ... so that it is satisfactorily received or understood
- What does it take to do that really well? (And why should we?)

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Supporting Our Served Agencies

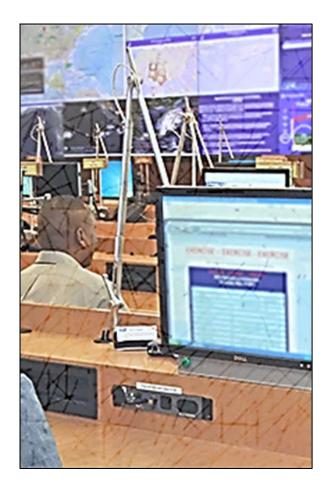
To serve them well, we must understand their needs

5m

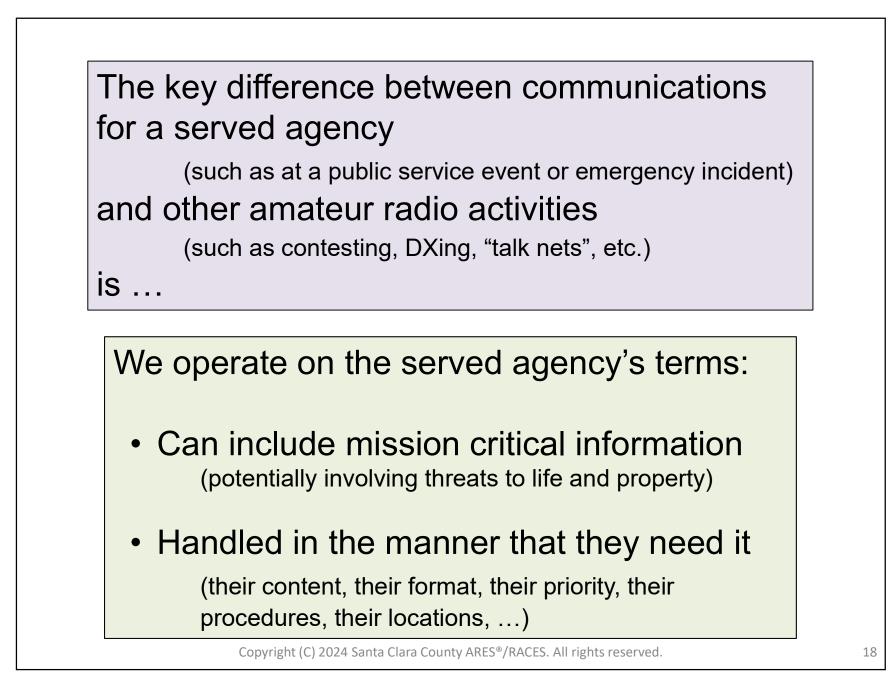
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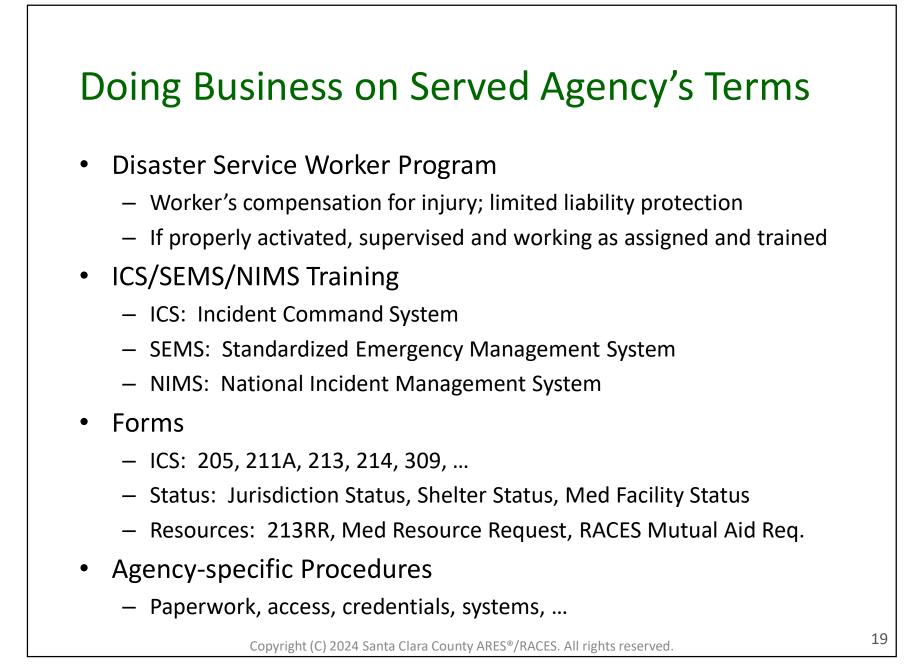
Amateur Radio Support for Agencies

- In a disaster, communications is the #1 problem!
- We can help with:
 - Communications Capability
 - Create the capability where it doesn't normally exist
 - Provide backup capability where existing systems have failed
 - Information collection and dissemination



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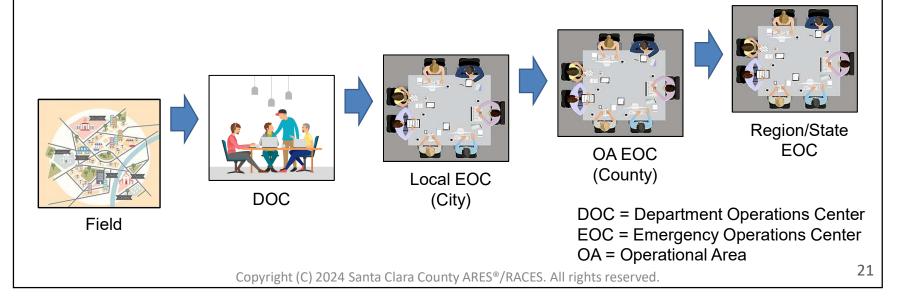
ICS – Incident Command System

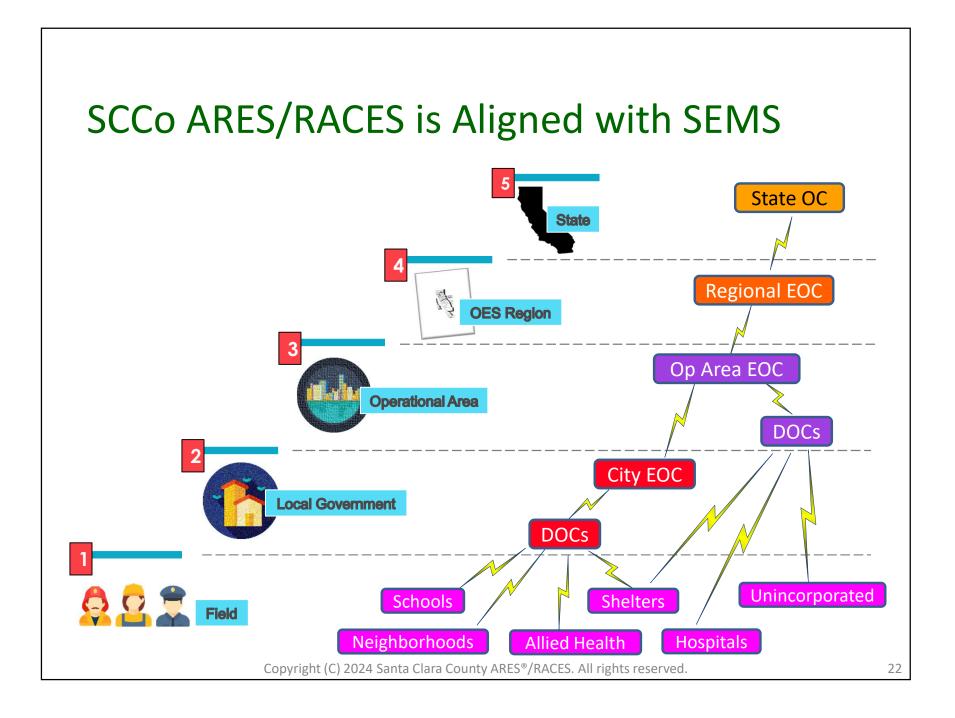
- Born out of management challenges of rapidly moving wildfires in 1970s
- Any size/kind of incident, common management structure & terminology, logistical and administrative support, cost effective
- Messages are usually addressed to positions, not individuals

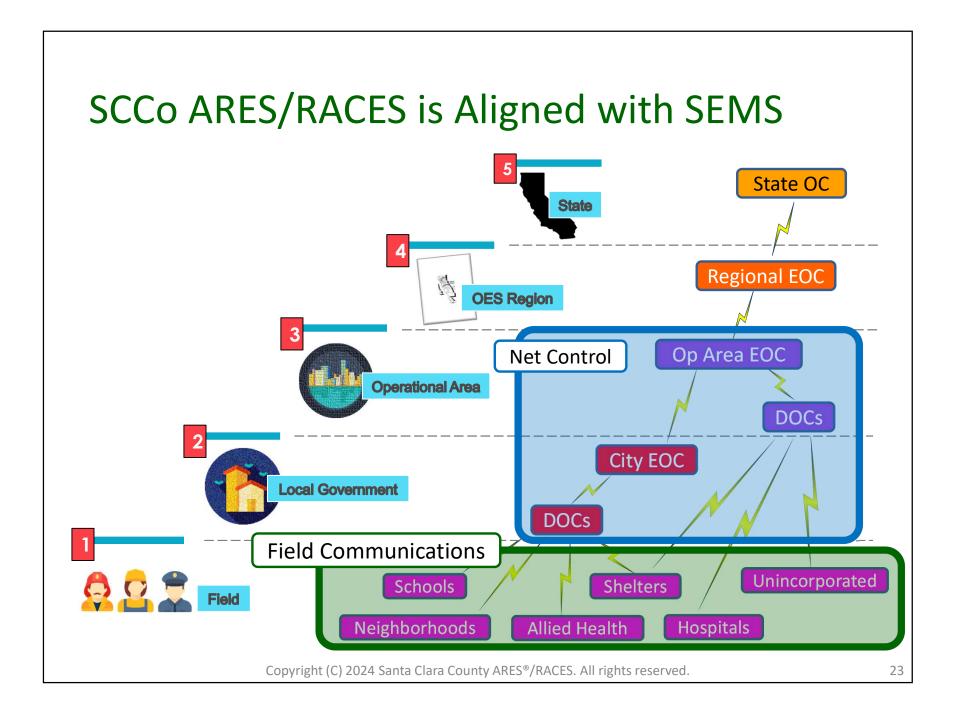


SEMS – Standardized Emergency Management System

- California specific
- Born out of coordination challenges of 1991 East Bay fires
- Improve coordination of state, local response in CA
- To be effective, know the communications flow in SEMS
 - What info? What format? Which ICS positions?







Agency-aligned Communications

- General ICS Forms
 - ICS 213 Message Form
 - EOC 213RR Resource Request
 - ICS 309 Communications Log
- Status Forms
 - WebEOC Shelter Status
 - WebEOC Jurisdiction Status
- Allied Health Forms
 - Allied Health Facility Status
- Hospital Forms
 - EMResource HAvBed Report
 - WebEOC Medical Facility Status
- Local
 - RACES Mutual Aid Request
 - Damage assessment

ate		ta Cla	ra County EOC Resource Request Form 213RR										
0/	Messa Date:	San	Santa Clara OA Jurisdiction Status WebEOC: 20190327 PIF: 2.1										
	IC	Messa Date:	Sant	a Cla	Clara OA Shelter Status WebEOC: 20130814 PIF: 2.1								
		Date:	Messa	Allie	Allied Health Status Report Short Form (DEOC-9) Version: February 2018 PIF: 2.1								
	1. Inci	T L	T Lo O Na	Messa	ICS 309								
		O N C		Date:	COMMUN	NICATIONS LO	G	TASK #				Date/Time Prepared:	
ub	5. Rec			T Lo	Operational Period: 04/06/17 00:00 to 05/15/17 23:59			XSC-99-00 Task Name:				05/15/17 07:26	
efe		Report	Co Repor	0 N				Demo					
es		EOC F	Shelte Shelte Status:	Ce Repor	Radio Operato					Station ID:			
					Michael E	Fox	LOG			N6MEF			
		Secon		Facilit									
			Name:	Conta	Time	From	То		Msg ID		Local ID	Subject	
	-	Goverr Office	Addres	Other	04/06 18:04	PKTTUE@W2X		F@N6ME				DELIVERED: MEF-154P_O/R_CityScan_Santa	
cti		Exped	City:	Juler	04/06 18:04	PKTTUE@W2X	W5RJ	D@W2XS		P	MEF-156P	Clara Emergency Declared: no TUE-1600P: _O/R_SCCo ARES/RACES Packet	
		Exped	State:	Facilit								TUE-1600P: O/R_SCCo ARES/RACES Packe Check-in Report For: Tuesday, April 04, 2017. Total = 32 call signs /34	
	8. Q	LAPOU	Zip:	Green	04/06 18:04	N6MEF@N6ME	XSCP	ERM		P	MEF-157P	test for expire	
		EOC S	Latitud	Red -	04/06 18:04	N6MEF	PKTTU	JE@W2X				DELIVERED: TUE-1600P: O/R_SCCo	
00		EOC (Shelte	Black								DELIVERED: TUE-1600P: _O/R_SCCo ARES/RACES Packet Check-in Report For: Tuesday, April 04, 2017. Total = 32 call signs /34 check-	
pe		Expec	Capac	Facilit	04/06 18:10	SAREOC@W1X	XSCE	C@W1X	SAR-107	7P N	MEF-158P	SAR-107P_O/R_ICS213_Freeway Exits near packet field stations	
ela	13. De	Exped	Occup	Facility	04/06 18:10	XSCEOC	SARE	OC@W1X				DELIVERED: SAR-107P_O/R_ICS213_Freewa	
٥v		Declara	Meals	Facility	04/06 18:11	PKTTUE@W2X	N6ME	F@W2XS				Exits near packet field stations DELIVERED: MEF-277P_O/R_ICS213_Check- 10/25 - N6MEF - Michael - Santa Clara	
С		State	NSS N	Facility to Pub	04/06 18:11	PKTTUE@W2X		TP@W2X			MEF-159P	10/25 - N6MEF - Michael - Santa Clara	
>	15. Su	Indica	Pet Fri	Facility	ility		PKTTUE@W2X			MEI -1331	VIET - TOOT	TUE-5534P: _O/R_SCCo ARES/RACES Packe Check-in Report For: Tuesday, October 25, 2016. Total = 26 call signs /27	
0			Basic \$	Facility								check-ins	
		Curren	ATC 20	Facility	04/06 18:11	NOWER	PKIIC	JE@W2X				DELIVERED: TUE-5534P: O/R_SCCo ARES/RACES Packet Check-in Report For: Tuesday, October 25, 2016. Total = 26	
		Type Comm	Availat	Facility				_				call signs /2/ chec	
	16. Su			If Faci	04/06 18:15 04/06 18:15	N6MEF N6MEF@W2XS	N6MEI N6MEI				MEF-162P	MEF-161P: test 1 MEF-161P: test 1	
	16. St			be Cor	04/06 18:15	N6MEF	N6ME	F@W2XS				DELIVERED: MEF-161P: test 1	
		Debris	11011	Facility	04/06 18:16 04/06 18:16	N6MEF@W2XS XSCEOC@W4X	XSCPE	F@W2XS ERM			MEF-163P	DELIVERED: MEF-161P: test 1 SCCo Packet Subject Line v140625	
			MOU:	Facility	04/06 18:16	XSCEOC@W1X	XSCP	ERM		P	MEF-164P	SCCo Packet Frequencies v140116	
		Floodi	Floor F	Facilit Facility	04/06 18:16 04/06 18:16	XSCEOC@W1X XSCEOC@W1X	XSCPE				MEF-165P	SCCo Packet Weekly Check-In v141224 SCCo Packet Tactical Calls v160306	
	Radio		Conta	Facility	04/06 18:16	XSCEOC@W1X	XSCPE	ERM			MEF-167P	SCCo XSC Tactical Calls v160901	
	Relay	Hazm		Facility	04/06 18:31 04/06 18:31	CX2SA@CX2S CX2SA@CX2S		KE@WW KE@WW			MEF-168P	MINAHASA, SULAWESI, INDONESIA BOTSWANA	
	Name		Manag	Other	04/06 18:31	CX2SA@CX2S	EQUA	KE@WW			MEF-170P	SOUTH SANDWICH ISLANDS REGION	
-		Emerg	Primar	Juiot	04/06 18:31 04/06 18:31	CX2SA@CX2S CX2SA@CX2S		KE@WW KE@WW			MEF-171P MEF-172P	ANDREANOF ISLANDS, ALEUTIAN IS. NORTHEASTERN IRAN	
			Primar		04/06 18:31	CX2SA@CX2S	EQUA	KE@WW		P	MEF-173P	VANUATU	
		0	Secon		04/06 18:35 04/06 18:35	CX2SA@CX2S CX2SA@CX2S		KE@WW KE@WW			MEF-174P MEF-175P	MINAHASA, SULAWESI, INDONESIA BOTSWANA	
		Casua	Secon		04/06 18:35	CX2SA@CX2S	EQUA	KE@WW		P	MEF-176P	SOUTH SANDWICH ISLANDS REGION	
					04/06 18:35 04/06 18:35	CX2SA@CX2S CX2SA@CX2S		KE@WW KE@WW			MEF-177P	ANDREANOF ISLANDS, ALEUTIAN IS. NORTHEASTERN IRAN	
					04/06 18:35	CX2SA@CX2S	EQUA	KE@WW		P	MEF-179P	VANUATU	
					04/06 18:42 04/06 18:42	CX2SA@CX2S CX2SA@CX2S		KE@WW KE@WW			MEF-180P	MINAHASA, SULAWESI, INDONESIA BOTSWANA	

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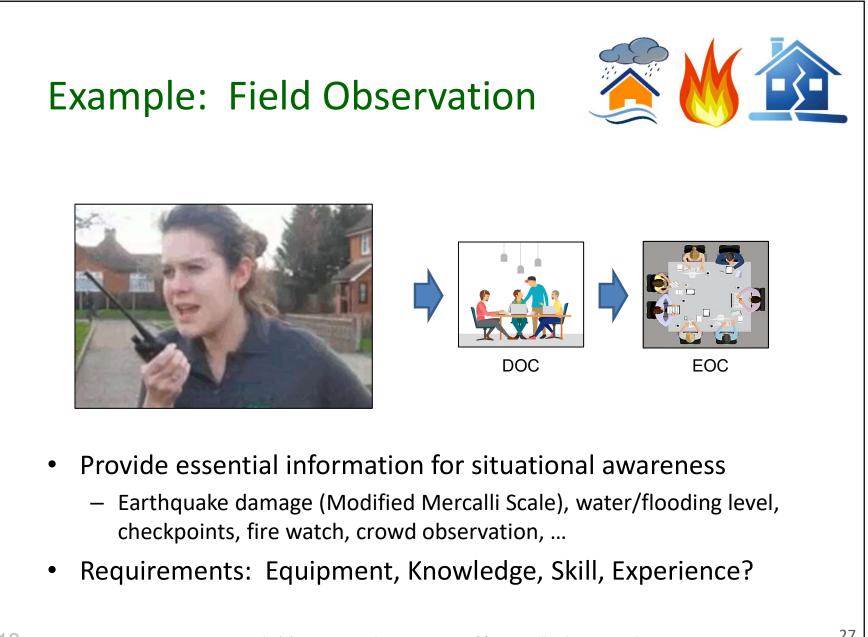


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Field Communications Assignments What to expect

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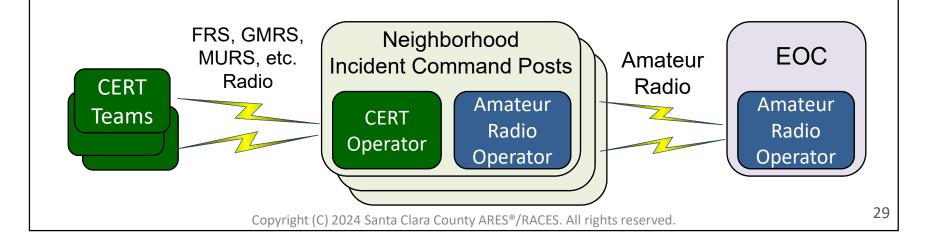
Example: Parades, Races, Festivals

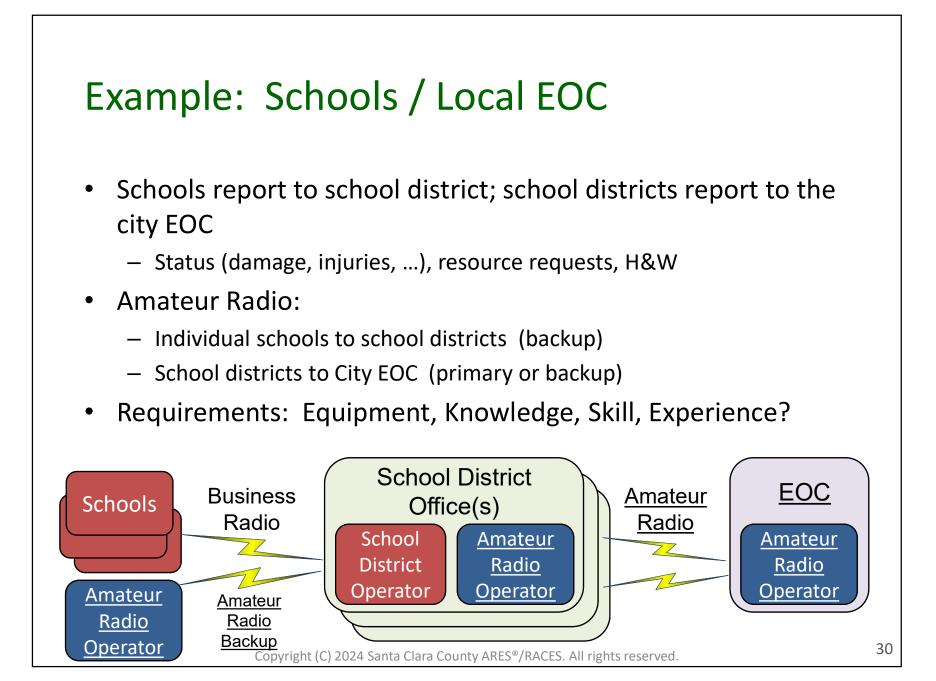
- Provide essential information for situational awareness
 - Checkpoints and rovers provide crowd estimates, report event status, assist with lost children and report important conditions to officials
- Requirements: Equipment, Knowledge, Skill, Experience?





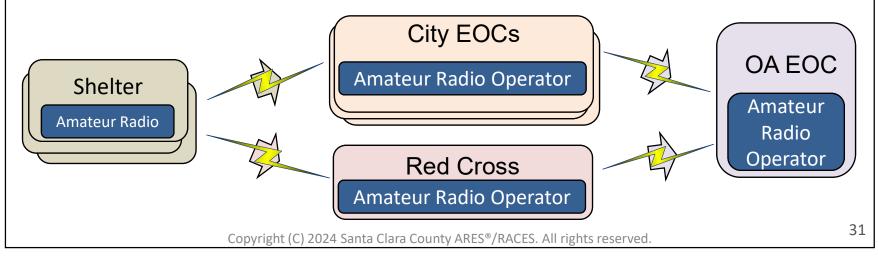
- Community Emergency Response Teams report to neighborhood command posts (CPs); CP reports to city EOC
 - Damage assessments, team status
- Amateur Radio: Neighborhood CP to EOC
- Requirements: Equipment, Knowledge, Skill, Experience?





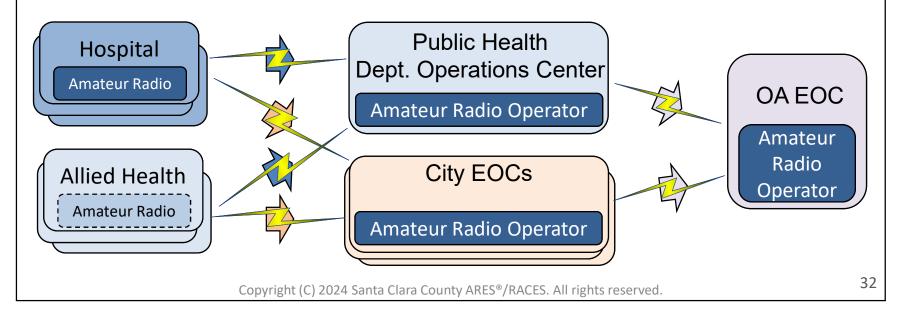
Example: Shelters

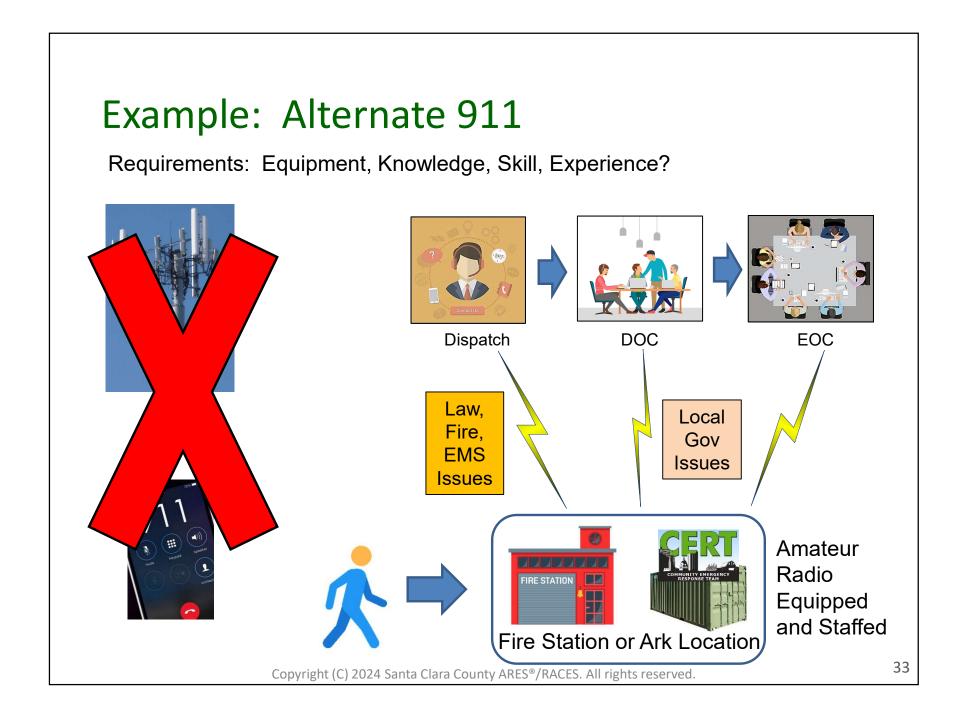
- Shelters may be managed by a local jurisdiction or by a non-governmental organization (NGO) such as the Red Cross. Shelter status and other municipal issues are reported to the jurisdiction EOC. Shelter resource support may come from the NGO.
 - Shelter status, resource requests, municipal issues, H&W
- Amateur Radio:
 - Shelter to (City EOC and/or NGO) to OA EOC
- Requirements: Equipment, Knowledge, Skill, Experience?

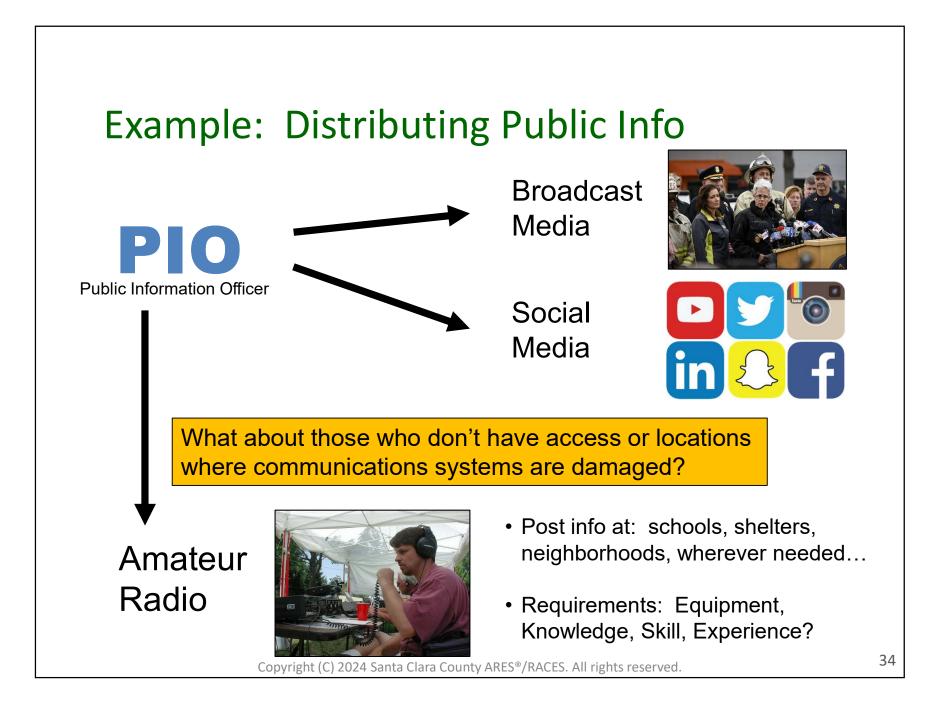


Example: Hospitals, Allied Health

- Medical info is reported to the PHDOC; municipal issues are reported to the city EOC; OA EOC supports both
 - Bed status, facility status, resource requests, municipal issues, H&W
- Amateur Radio:
 - Hospital to (PHDOC or City EOC) to OA EOC
 - Support for Allied Health facilities is new
- Requirements: Equipment, Knowledge, Skill, Experience?



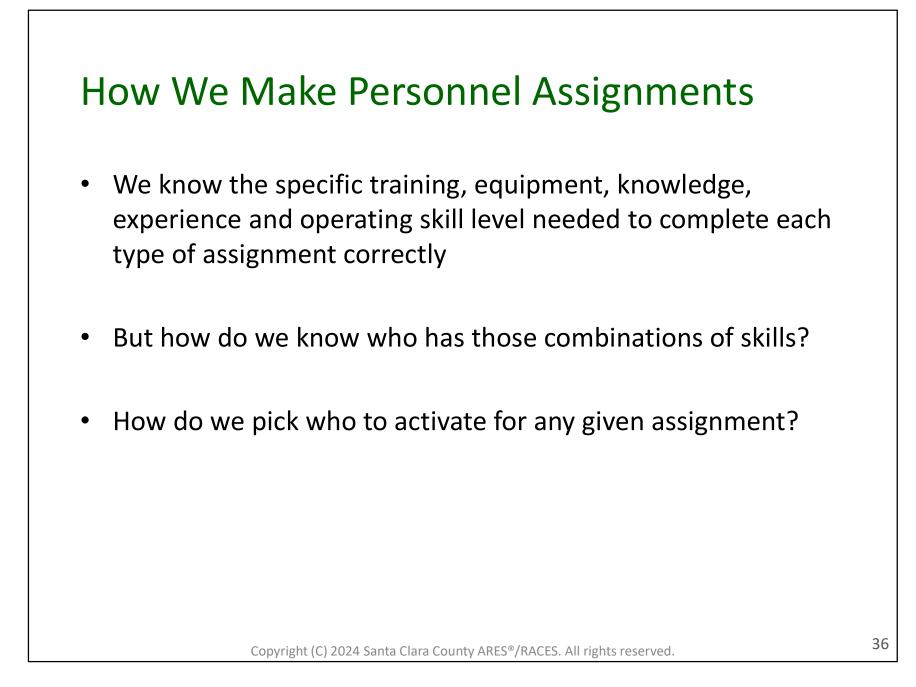


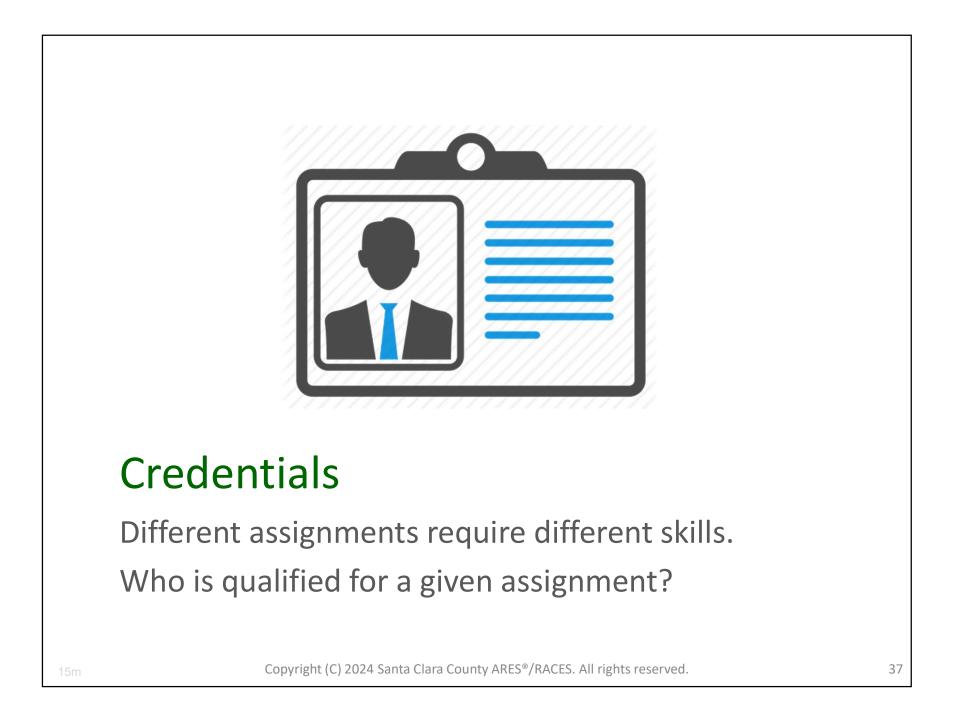


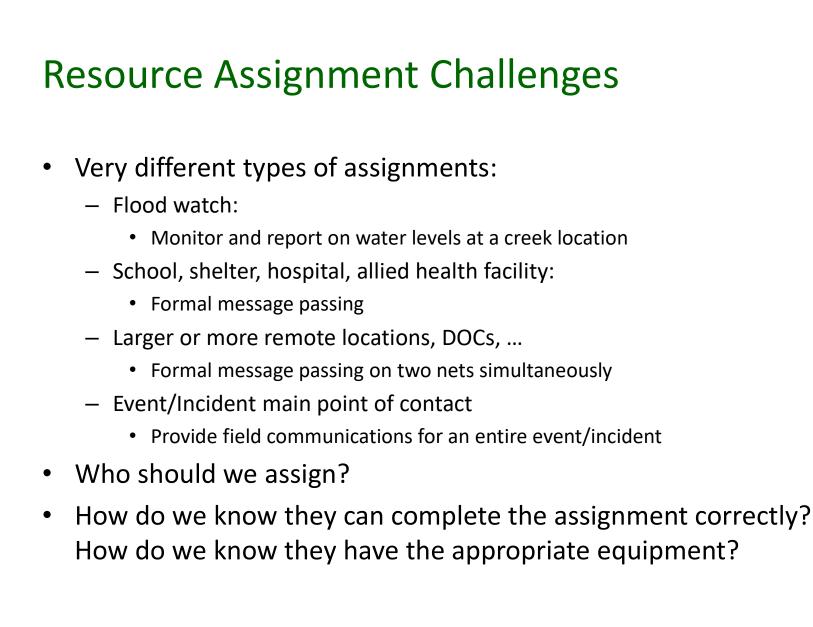


- We exist to serve these agencies (government and nongovernment), not manage or direct them
 - We are NOT there to tell them what to do or how to do it
- But most agency message originators/recipients don't know how to utilize amateur radio
 - They simply haven't practiced with us before (or in a long time)
 - May not be familiar with paper forms (usually use web-based system)
 - May not know our communications methods
 - May not know how/where to address messages
 - May not know what to do with paper form when received
- We can help by acting as a coach
 - But be <u>VERY</u> careful to only suggest, not tell

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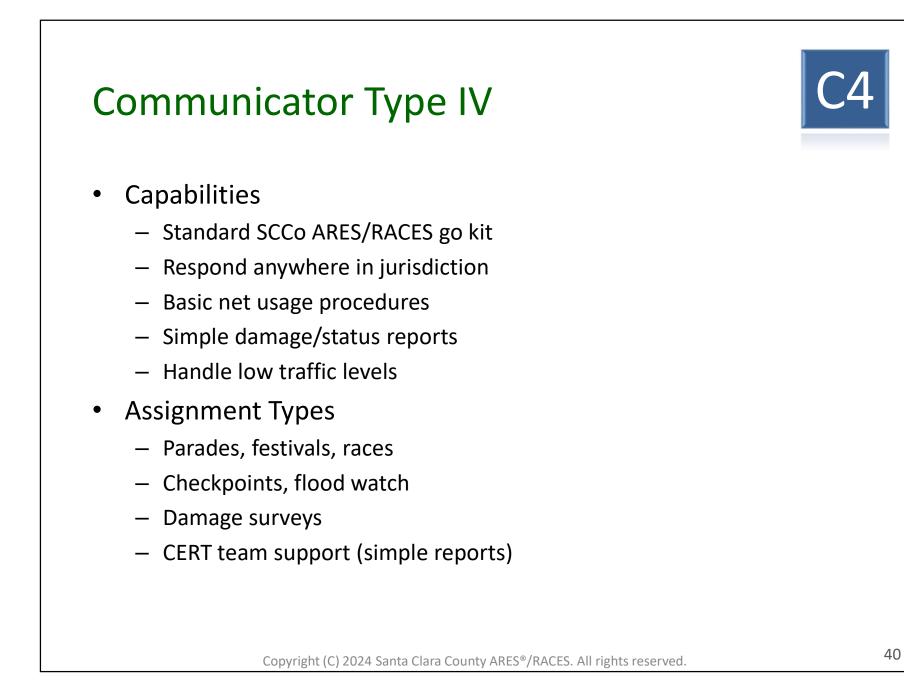


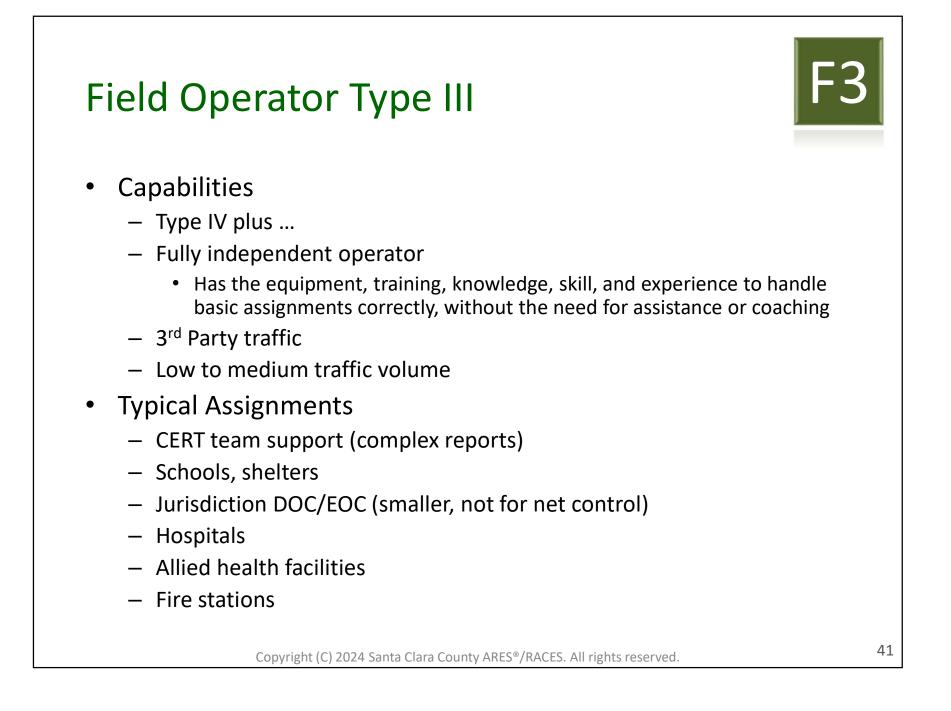


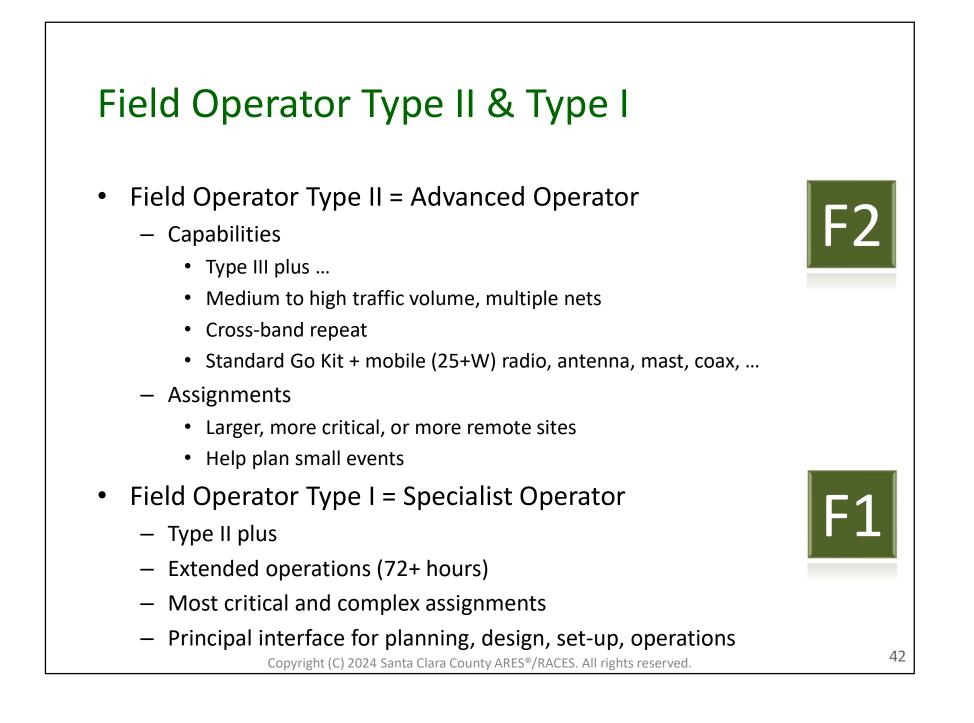


- Incident Command System (ICS) resource "Types" identify capability
 - Applies to equipment (fire apparatus, aircraft, ...)
 - Applies to personnel roles (incident commander, section chief, ...)
- SCCo ARES/RACES credentials: four resource types across four roles
 - Type IV requires sign-off by city Radio Officer
 - Types III, II, I require operational evaluation by peer evaluator
 - Each resource type includes operator and equipment appropriate for the role

Туре	Skill Level	Field	Net Control	Packet	Shadow	
L	Specialist	Field I	Net Control I	Packet I	Shadow I	
II	Advanced	Field II	Net Control II	Packet II	Shadow II	
Ш	Independent	Field III	Net Control III	Packet III	Shadow III	
IV	Basic	Type IV Communicator				
V	Unknown	Licensed Amateur Radio Operator (w/DSW)				
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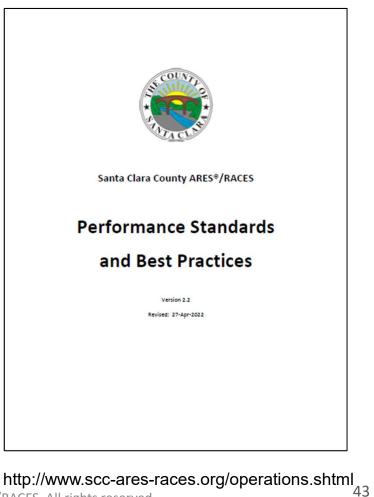






Credentialed Operators Follow Performance Standards and Best Practices

- Covers all performance aspects of operating in ARES/RACES
 - Professionalism and Training
 - Communications Technique
 - Safety
 - Methods and Procedures
 - Equipment
 - Documentation
- Applies to all operators
- Standard used for credential performance evaluations



Credentialed Operators Come With Standard Go Kit

- 2-hour Carry Kit •
 - Keep it nearby
- 12-hour Go Kit •
 - Needed for any deployment
- Extended Kit
 - 72+ hours
- Includes: •
 - Required
 - Recommended
 - Optional
- More on equipment later ... •

Santa Clara County ARES®/RACES Go Kit Checklists

Legend:

X = Required (must have in kit at all times) R = Recommended (likely useful on many assignments) O = Optional (useful on some assignments)

2-Hour Carry Kit

Purpose: To be kept nearby at all times for immediate (within minutes) communication of damage reports during Resource Net Level 1 ops. Also used to remain in contact with Resource Net Level 2 while returning home to retrieve 12-hour Go-Kit.

Items:

- X 2m/70cm dual-band radio HT recommended (min. 5W on 12V/2.5W on bett) · Mobile 25W optional (if vehicle will not be far away)
- Programmed with Resource Net frequencies
- X Charged batteries for 2-3 hours operation X 2m/70cm dual-band mobile antenna (mag mount, window
- mount or existing mobile antenna)
- X Current SCCo Voice Frequency List X Modified Mercalli (Mike-Mike) scale
- X Notepad / pens
- R Cigarette lighter adapter
- R Emergency county and city telephone contact list
- R Cell phone R Water (16 oz.)

12-Hour Go Kit

Purpose: For fully independent operation; unknown environment (hest, cold, wind, rain); unknown time (day, night, up to 12 hours). Return home to retrieve.

Equipment

- Portable Radio Equipment: X 2m/70cm dual-band handie-talkie (HT)
- Minimum 5W on 12V/2.5W on batteries [Note 1] Dual-receive recommended
- X Radio user manual or cheat sheet
- X Earbud or headphones minimum; headset, earbud/mic, or speaker/mic/earbud, or similar recommended
- X Charged batteries for 12 hours (min. 3000 mAh) [Note 2]
- X Power cord adapters connect HT to power sources:
 - Powerpole: · Cigarette lighter socket
 - Vehicle battery terminals
- X Spare fuses
- X Coax adapter: connect HT to coax
- X Min. 25 feet of 50 Ohm coaxial cable

Santa Clara County ARES*/RACES

Page 1 of 4

Revised: 29-Apr-2022

R Small backpack, vest, chest harness or other similar

method for carrying HT while operating portable Mobile or Stationary Radio Equipment:

25W minimum

Powerpoles

R Spare fuses

Antennas:

Dual-receive, cross-band repeat

R Radio user manual or cheat sheet

handswitch or footswitch PTT

· Cigarette lighter socket

· Vehicle battery terminals

O Extension cord, 3-wire, 30-100 ft.

R 2m/70cm high gain HT antenna

O USB flash drive (i.e. USB key)

O Shade cover for display

Other Communications Gear:

R Nylon Tie-Wraps/wire ties

R Small multi-tool or tool kit

O Cables: TNC to radio; TNC to PC

pole or other)

Packet Equipment:

O Portable printer

O FRS/GMRS Radio

O Satellite phone

R Duct tape

R Electrical tape

R Utility knife

Tools

R Powerpole splitter or fused distribution panel

R Coax adapter: connect mobile radio to coax

R 2m/70cm mobile radio (separate/removable from vehicle)

R Headset (stereo recommended for VFO per ear) w/ inline.

R Battery for 12-hours operation (20 Ah min.; 26 Ah rec.)

R Power cord adapters - connect mobile to power sources:

R Min. 25 add'I feet of 50 Ohm coaxial cable w/barrel conn R Extension cord, 3-wire, 3-6 ft., multi-outlet

X Coax adapters: connect coax to existing antenna jack:

· N-type plug (male) and N-type socket (female)

R Portable mast (elevates antenna base min. 10 ft.)

R Tripod or other self-supporting base for mast

O Laptop with Outpost and PackItForms installed

O TNC (may be hardware, software or built into radio)

O Entire station can operate for min. 1 hr on battery

R Cell phone & charger and/or cigarette lighter adapt.

X 2m/70cm dual-band magnetic or window mount antenna

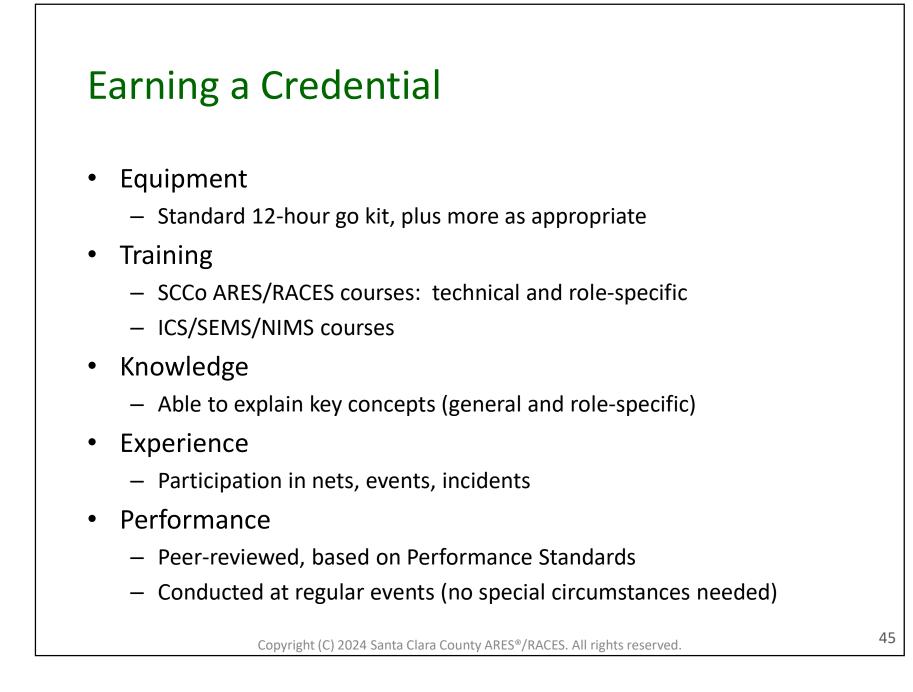
R 2m/70cm dual-band portable base antenna (e.g. roll-up J-

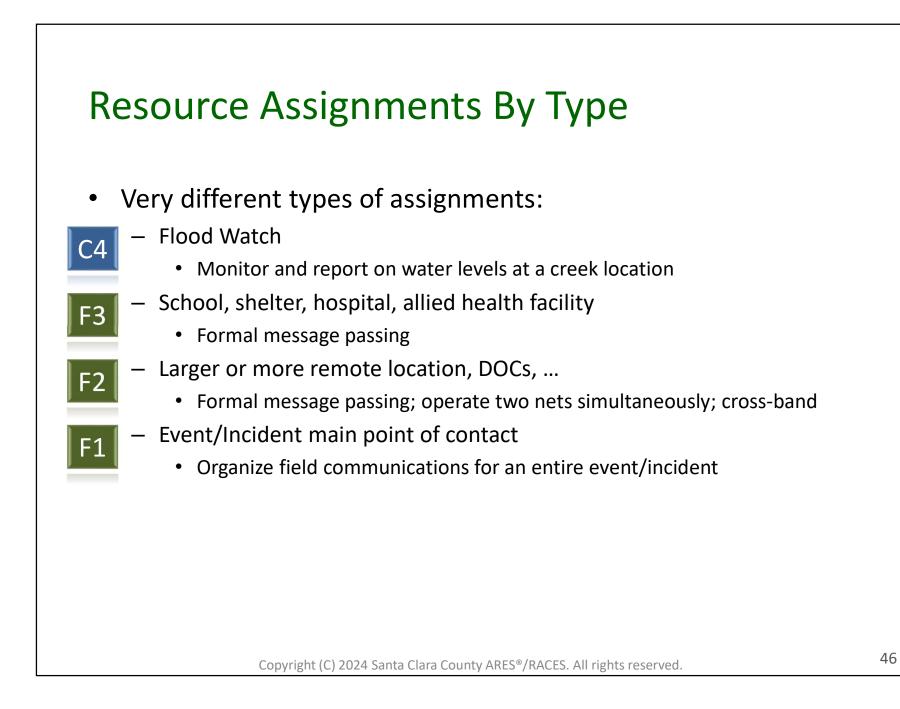
R Window clip antenna mount (for non-metallic vehicles)

· BNC plug (male) & BNC socket (female)

UHF plug (PL-259) & UHF socket (SO-239)

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- An amateur radio operator that meets certain minimum requirements and is <u>willing to help outside own city/agency</u> when needed
 - Only called upon when not needed within own city/agency
- Must hold at least Type IV Credential:
 - Encouraged to earn role-specific credentials (Type III, II, I)
- Some additional administrative requirements
 - County DSW Registration
 - Background check





- <u>https://www.scc-ares-races.org/credentials</u>
 - Documentation
 - Credentialing Program Handbook
 - Performance Standards and Best Practices
 - Forms
 - Credential and Endorsement Forms
 - Approved Activity Forms
 - Training Guidance required classes
 - Program Management & Support
 - Input and Guidance
 - Submitting Records
 - Program Manager

Santa Clara County ARES/I Herman Munste W6XRL4	
Credentials:	
Evaluator	E2
Field Comms	F1
Net Control	N3
Packet Comms	P2
Shadow Comms	S1
Endorsements:	
Mutual Aid Comm	MAC
Fire Station Radio Oper	FRO
EOC Radio Operator	ERO
EOC RACES Unit Lead	RUL
Expires: Jan 31, 20#	#

Value Add – Round Two

Question:

What value do you (could you) add to a planned event or emergency

incident?

Value Add – Round Two

Question:

What value do you (could you) add to a planned event or emergency incident?

Answer:

For credentialed operators ...

The **equipment**, **knowledge**, **skill** and **experience** necessary to provide the **communications capability** needed by served agencies to **collect and disseminate information** in **the manner they need it** (content, format, priority, procedures, locations, ...).

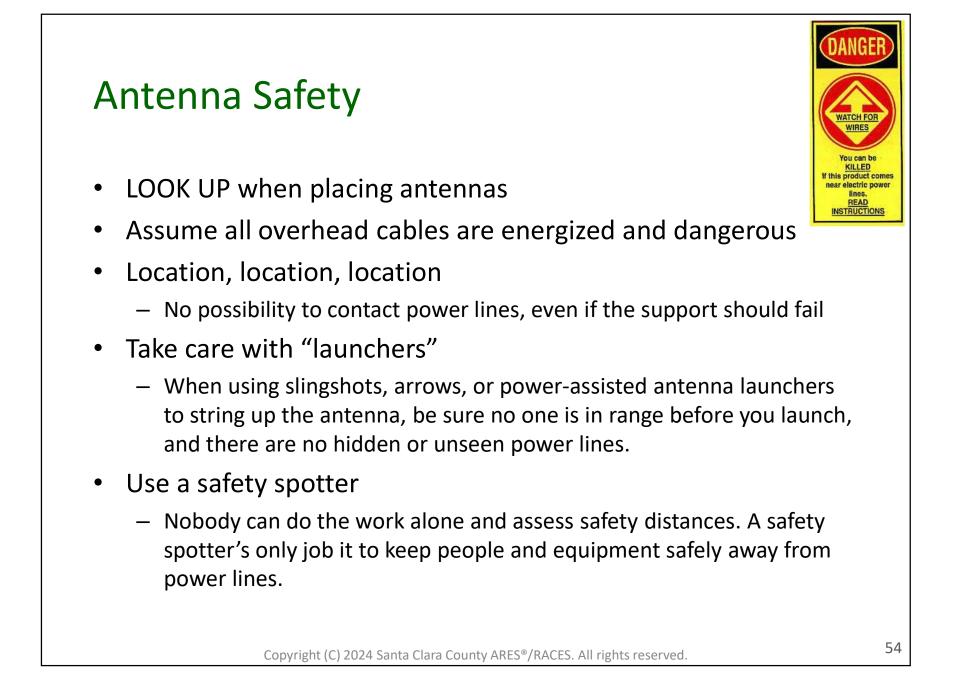
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Personal Safety

- Don't accept an assignment until you and your family are safe
- On assignment, actively & continually assess personal safety
 - Maintain awareness of surroundings and potential for safety issues
- Call 911 or other official emergency number if fire, medical or public safety issue exists
- Wear proper attire, even for drills, public service events
 - Vest (lime yellow, ANSI Class 2)
 - Personal attire
 - Long pants (unless otherwise authorized)
 - Sturdy footwear with closed toe, no sandals
 - Protection from the elements (long sleeves, hat, ...)
 - Other personal protective equipment (PPE) as needed (gloves, safety glasses, hearing protection, ...)

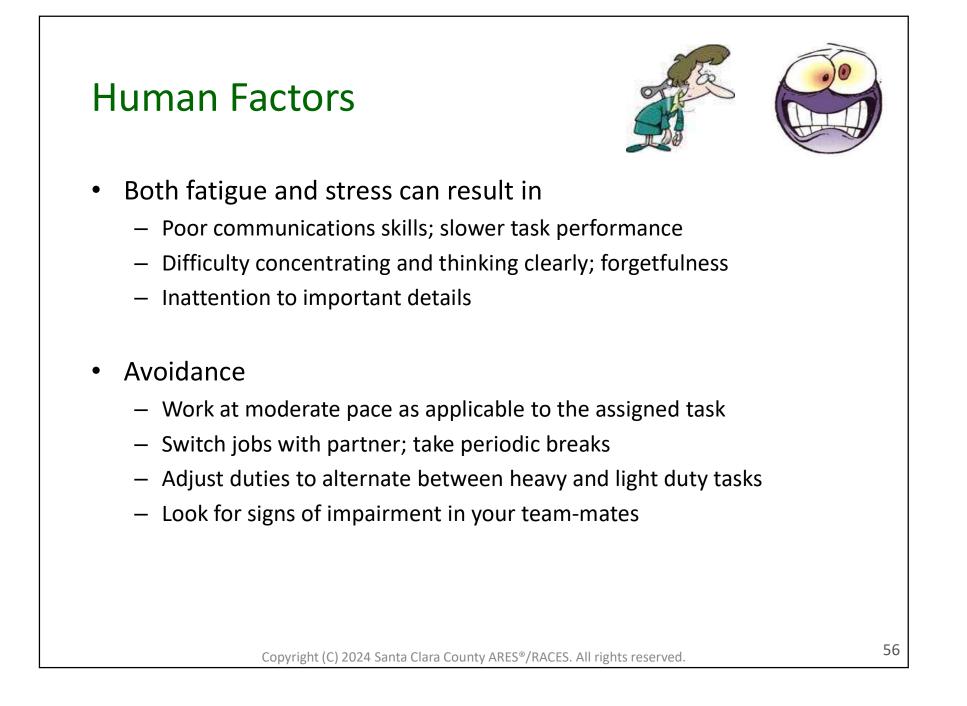
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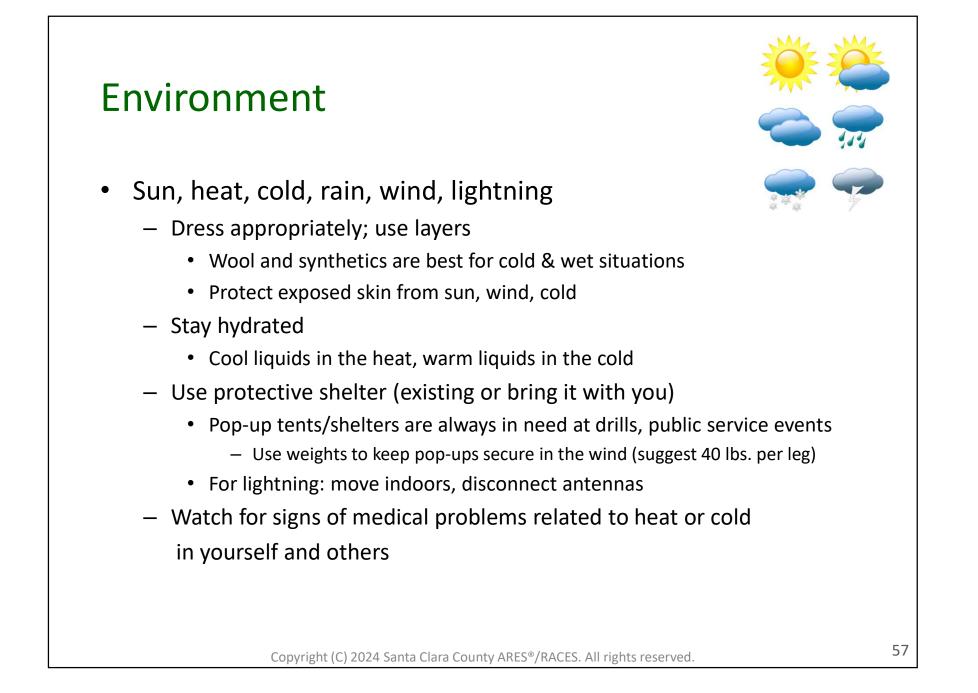


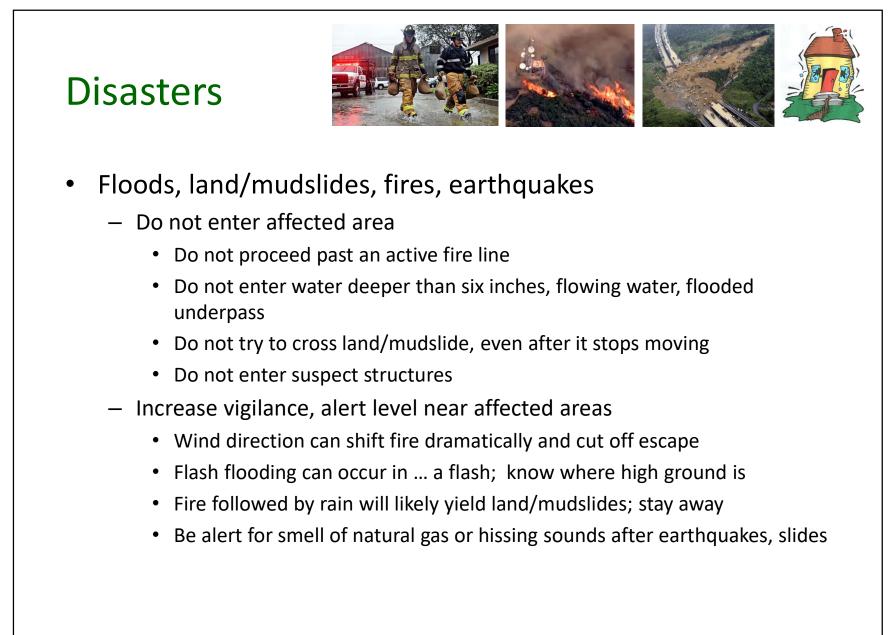
RF Safety Evaluation

- Your license requires an RF Safety Evaluation. The FCC rules changed and existing stations had until May 03, 2023 to comply.
- Controlled vs. uncontrolled environment: you (or other hams) and your household vs. unsuspecting public bystander
- Example scenarios from ARRL rf-exposure-calculator (146 MHz, FM, duty cycle is 5 min Tx / 10 min Rx), minimum safe distances shown:
 - Mobile radio, antenna on push-up mast:
 - 25W, 25 ft coax, total gain 3 dB
 - controlled: 3 ft. uncontrolled: 4 ft. 3 in.
 - Car mag mount antenna (metal roof): 50W, total gain 2dB controlled: 3ft. 9 in.
 uncontrolled: 5 ft. 5 in.
- ARRL RF exposure page and calculator
 - o <u>https://www.arrl.org/rf-exposure</u>
 - <u>https://www.arrl.org/rf-exposure-calculator</u>
- See the Antenna Class Slides for more details
- Will become part of Credential Evaluations

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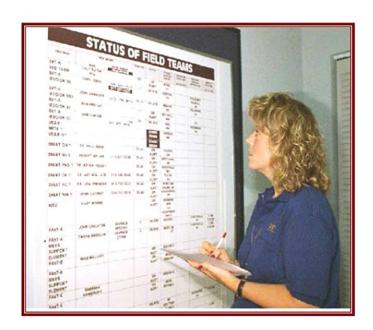






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Mobilization

Field Operations

(Review material from the Fundamentals Class)

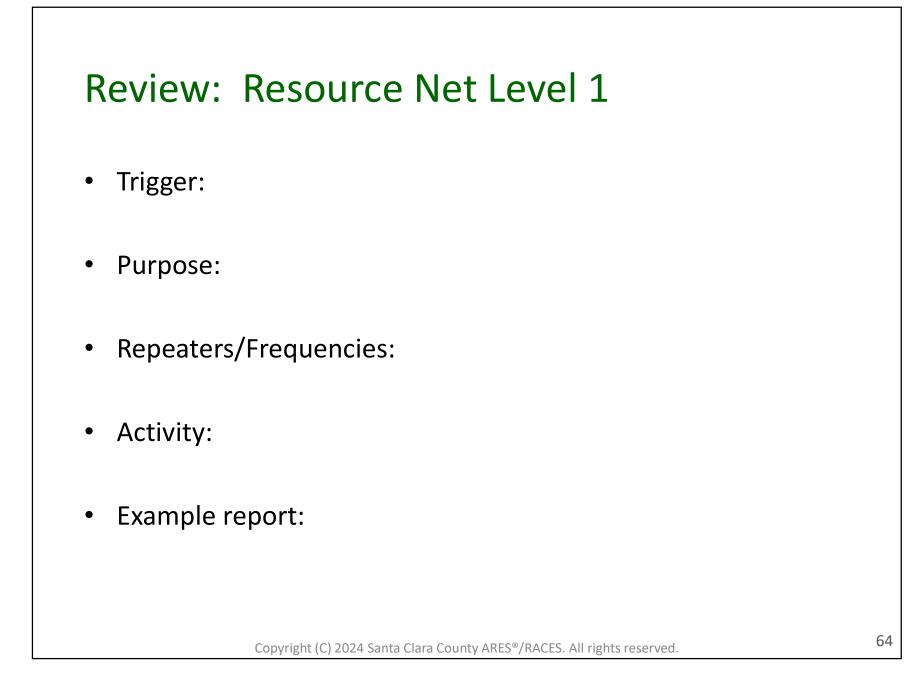
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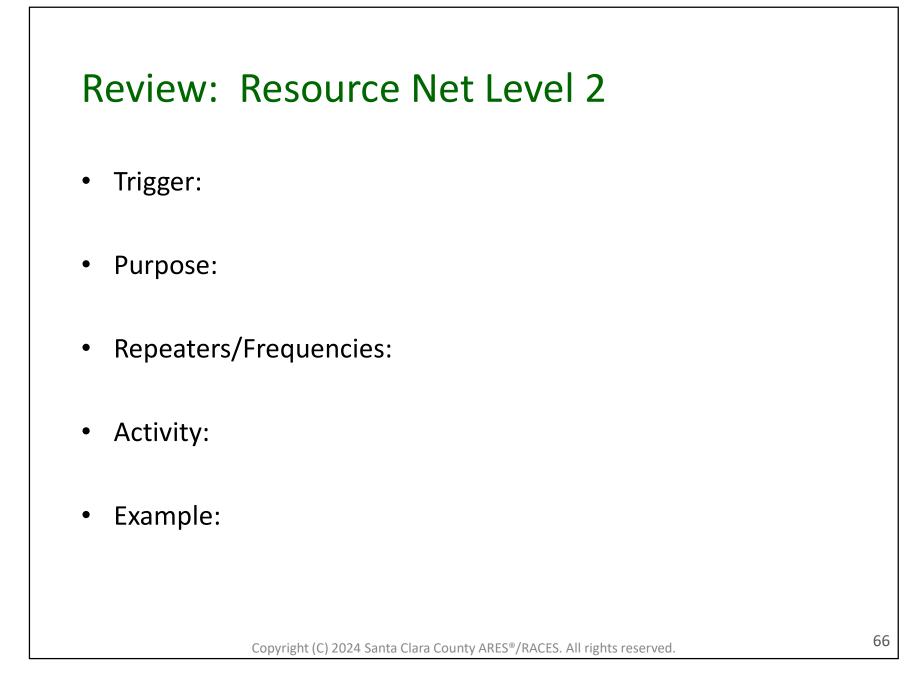
Review: Mobilization (Covered in Fundamentals Class)

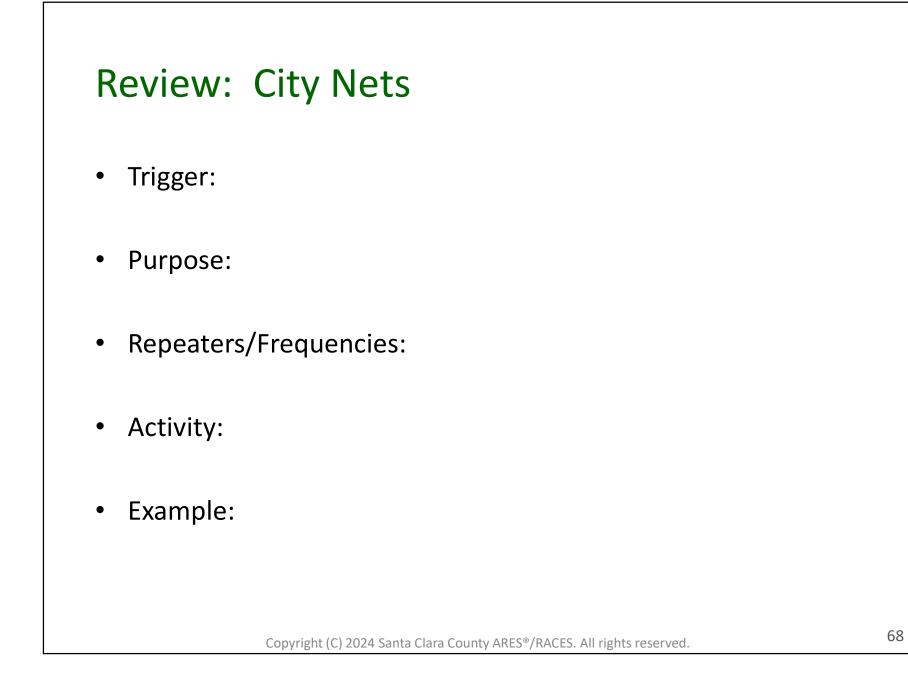
- Alerting
- Resource Net Levels 1,2,3
- Assignment
- Activation
- Travel
- Arrival
- Sign In

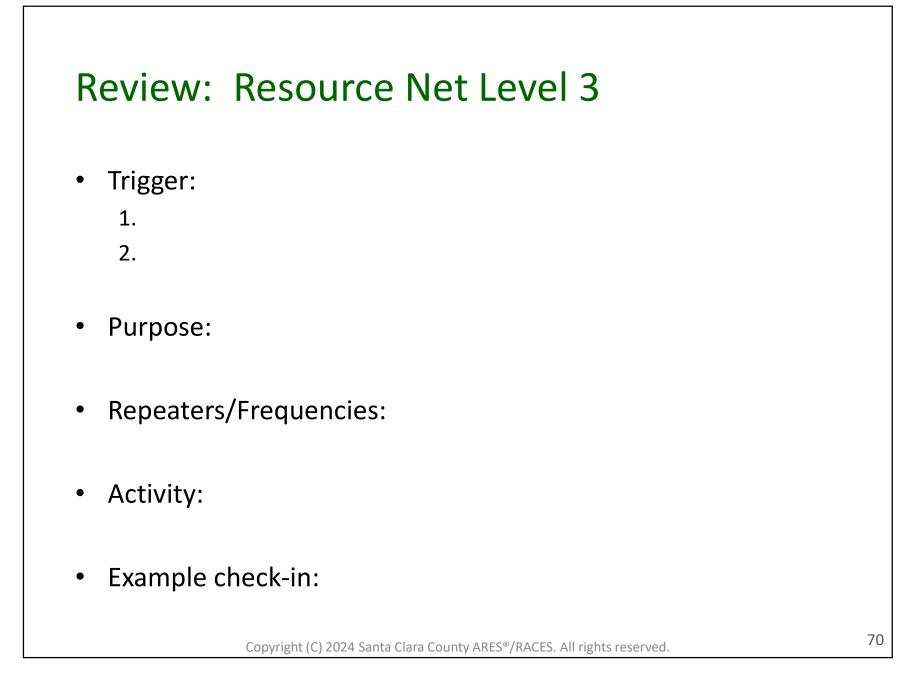
Review: Alerting

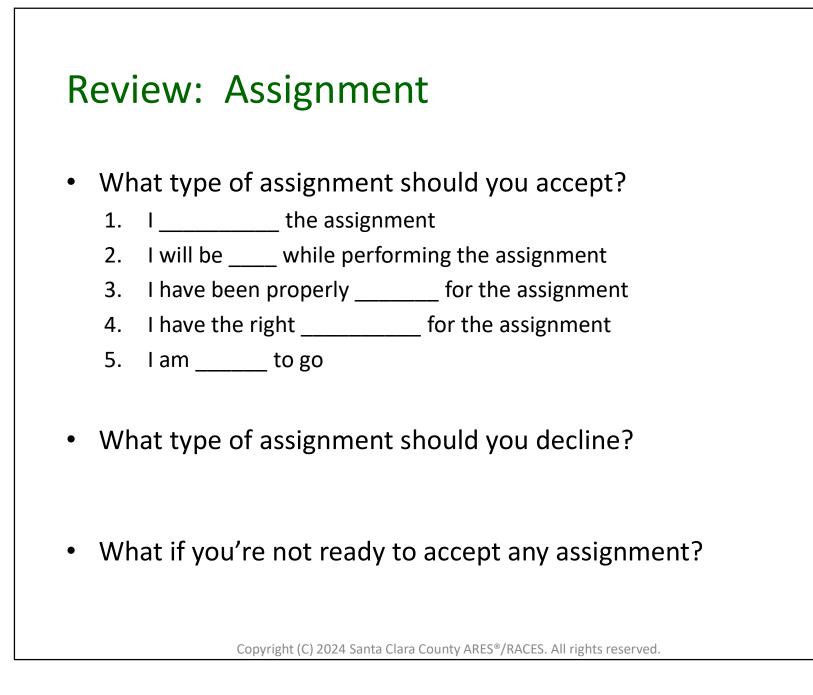
- Definition of alerting:
- Alerting Types
 - Self-alerting
 - Examples:
 - Non-self-alerting
 - Examples:
 - Both
 - Examples:
- Alerting Methods
 - Examples:



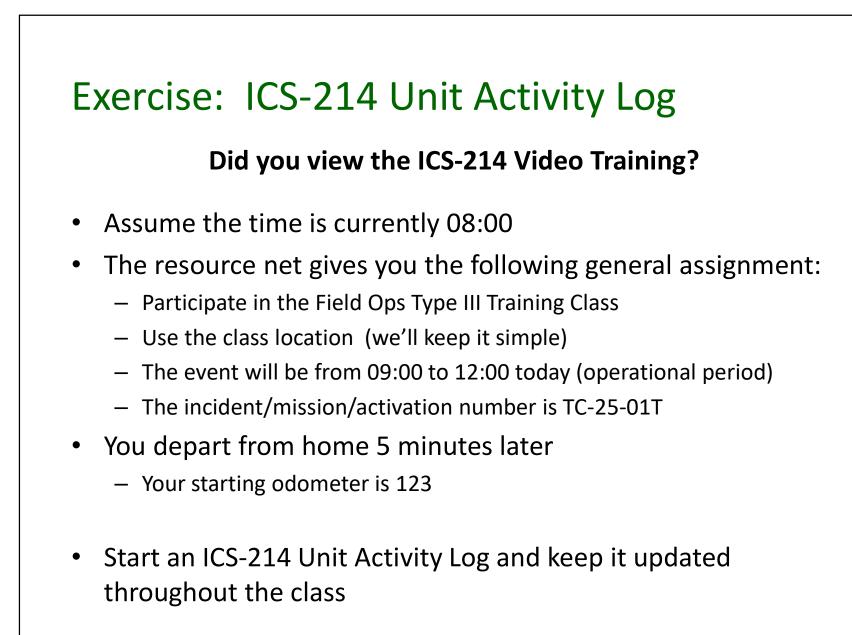








Review: Activation	
 When ready to depart, what info does net control need? 1. I am to depart 2. My is: 3. My starting is <last digits=""></last> 4. End with your What key info should you get from net control? 	
 Begin filling out your ICS 	
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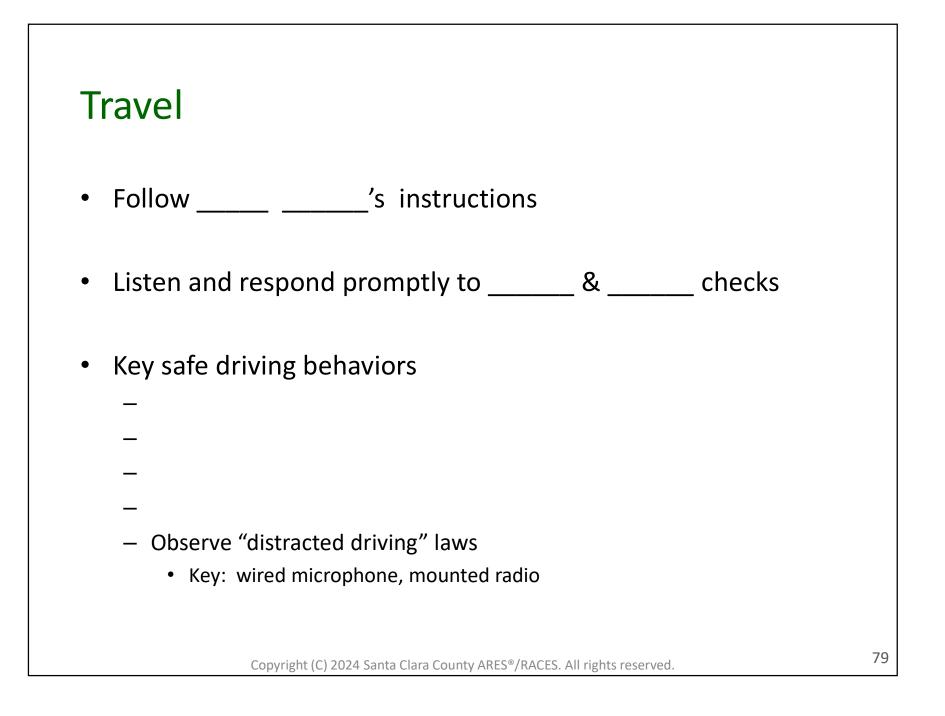
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Exe	rci	se: ICS-	·214 U	nit	Log		
UNIT L	OG 1. Incident Name and Activation Number			2. Operational Period (Date/Time)			
ICS 214-S	CCo	Field Ops Type	e III Training		MM/DD/		
ARES/RA	Not determined.	TC-25-01T			From: 09:00	To: 12:00	
3. Unit Name /	Tactica	al Call / Designators		CONTRACTOR CONTRACTOR	ader (Name, Call Sign, I		
					name>, <your< td=""><td>call sign></td></your<>	call sign>	
			Personnel				
Name		Call Sign	ICS Position		Home Base/City		
				•	d by team lead ors are dispate		
6.			ΔΟ		OG		
		Maior Activ		TIVITY L		/ To / Msg# / Msg Text)	
6. Time (24:00) 08:00	Ase	Major Activ	ities & Events / Oc	casional Me	essages (indicate From	/ To / Msg# / Msg Text) at <location></location>	

Example: Resource Net Departure

- Check-in for Public Service Event
 - Assignment, activation number, other details already known
 - Instructions were to check-in when ready to depart
- Example check-in
 - Identifies and states intended communication (ready to depart)
 - Provides information requested, nothing more, nothing less
 - Ends with call sign, which satisfies FCC and indicates transmission is completed
- Example check-in
 - Same as above, but
 - Street names are complicated, so he uses "I spell" correctly. Excellent!

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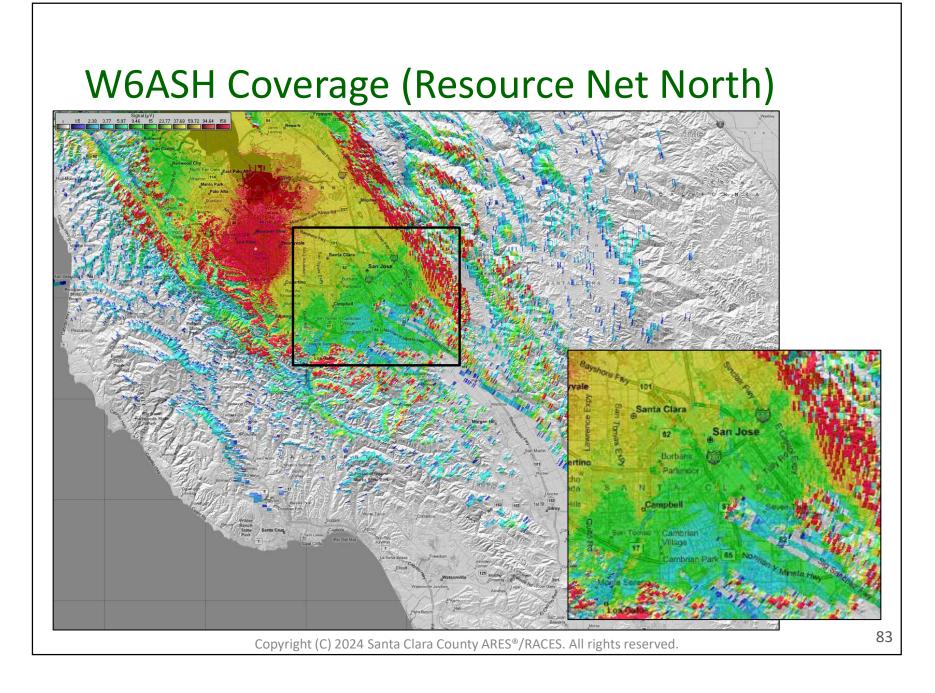
Example: Resource Net Health & Welfare

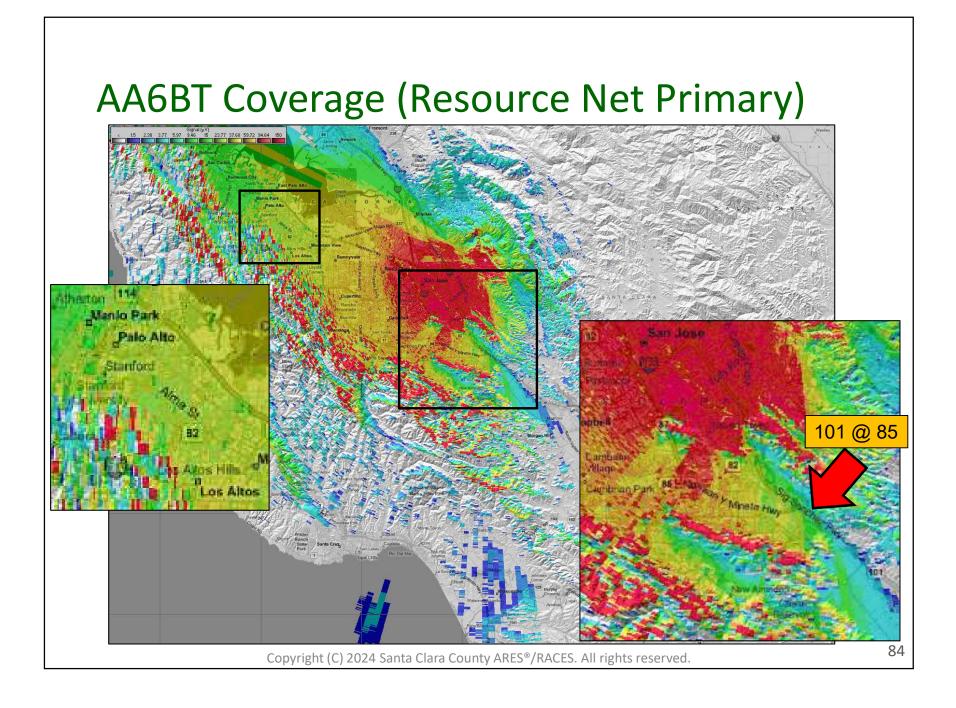
- Health and welfare checks usually done in a batch
- Each person called sequentially
- Example batched health & welfare check
 - Both provide location, odometer and end with call sign. Excellent.

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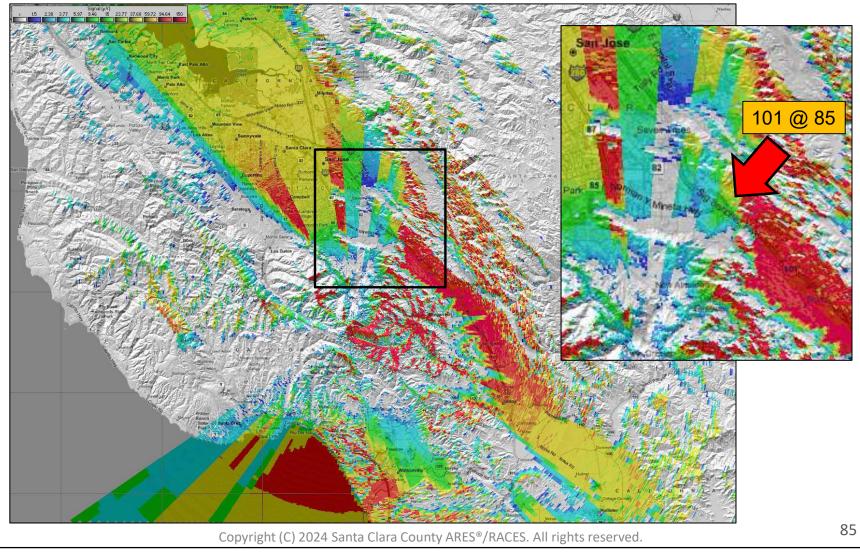


- To cover the entire county, we use three linked repeaters
- Pre-program all of them into your radio
- Know the coverage areas
- Remember to switch to the correct repeater as you drive



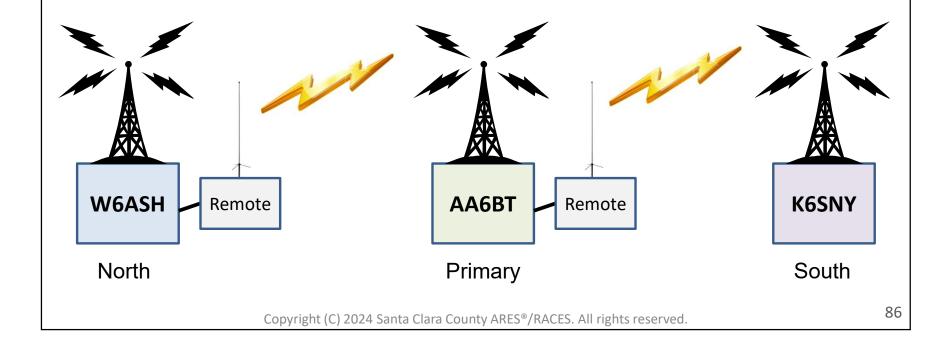


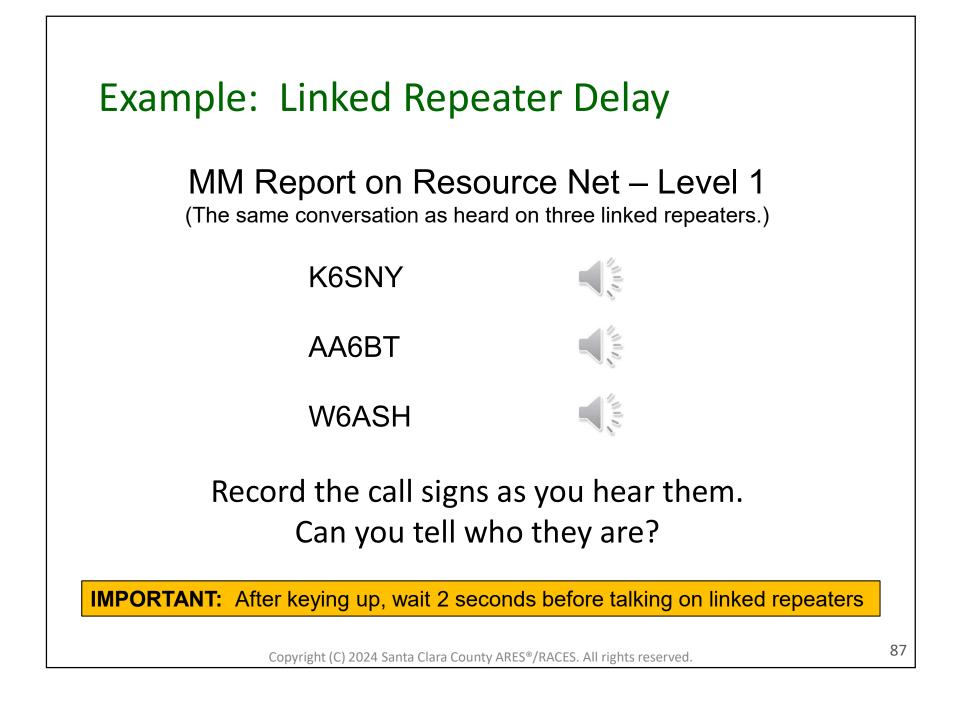
K6SNY Coverage (Resource Net South)

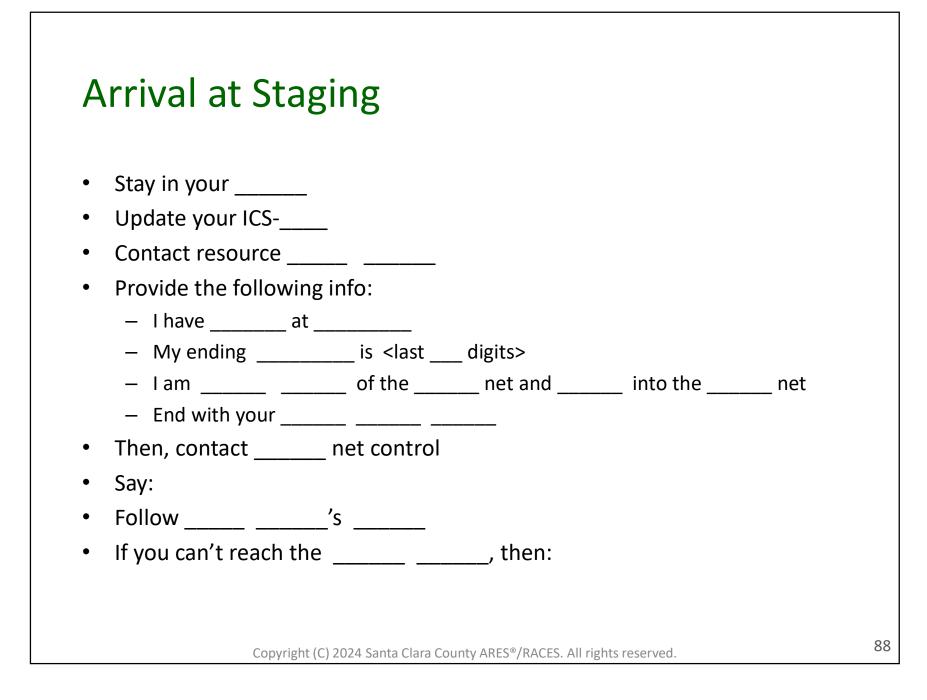


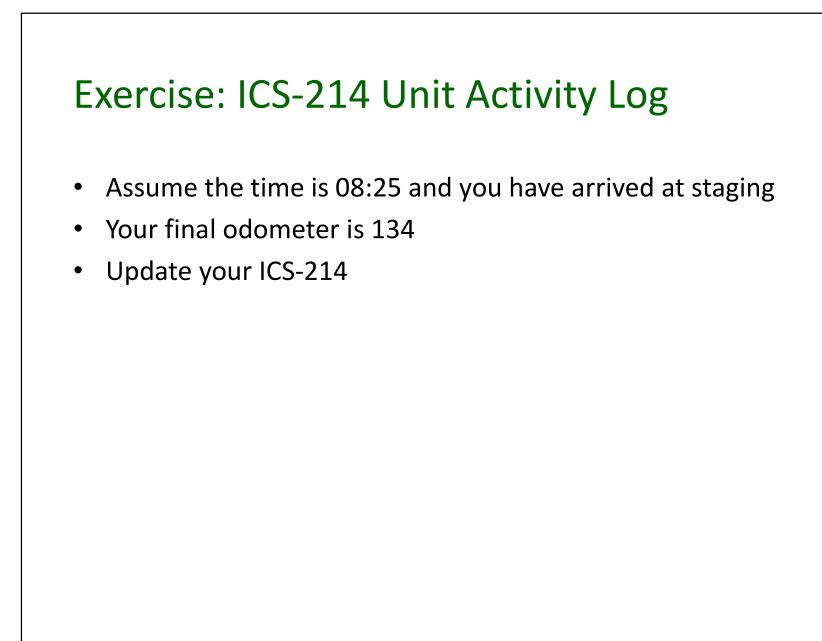


- Normally, the repeaters used for Resource Net are not linked
- When linked there is a delay -- you need to allow for it
- Max delay when sending from W6ASH to K6SNY (or reverse)









UNIT LO	cco Field Ops Type		Class	2. Operational Period MM/DD/ From: 09:00	YYYY MM/DD/YYYY	
3. Unit Name /	Tactical Call / Designators		4. Unit Le	ader (Name, Call Sign,	ICS Position)	
			<your< td=""><td>name>, <your< td=""><td>call sign></td></your<></td></your<>	name>, <your< td=""><td>call sign></td></your<>	call sign>	
5.		Personnel	Roster	Assigned		
	Name	Call Sign		ICS Position	Home Base/City	
			1			
	,		1			
			1			
6.		AC		OG		
Time (24:00)						
08:00	Assignment: attend Field Ops Type III Training Class at <location></location>					
08:05			<u> </u>	g erece e		
	Departed home, odometer 123 Arrive staging, odometer 134					

Example: Switch To Staging Net

- Stay in vehicle
- Check out of resource net
 - Same three pieces of info: location, odometer, call sign
 - You: "I have arrived at staging, final odometer 134, checking out, W6XRL4"
 - NC: "W6XRL4, roger"
 - Example: Checking out of resource net

- Check into incident/event staging net if there is one
 - You: "Staging net control, W6XRL4, I'm at the parking lot, checking in"
 - NC: "W6XRL4 proceed to staging tent"
 - You: "Roger, W6XRL4"
- Proceed according to instructions

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Sign-In	
 Locate and sign-in on ICS 	
 If one doesn't exist, then: 	
 Stay in constant contact on the net 	
• Fill out	
Get/attend a	
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What If There Is No Staging Location?

- In some cases, you may be a single resource going directly to a specific location where there is no need for staging
 - Example: you are assigned to go directly to a specific shelter or hospital or command post
- The same activities that we are going to discuss would apply
 - You will likely have paperwork to fill out
 - You will likely get a more detailed assignment briefing
- The main difference will likely be
 - You will likely be told to contact the local team directly on their tactical net instead of a separate staging net
- If you are the first one there
 - You will create the paperwork (ISC-211 Check-In Form)
 - You will set up the tactical net, ...

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Exercise: Sign-In

- Assume the time is 08:30; you have arrived at <class location>
- Sign in on the ICS-211
- Assume you are the first person to arrive, so create an ICS-211
- You should know your City/Agency Code

American Red Cross	ARC
Campbell, City of	CBL
Cupertino, City of	CUP
Gilroy, City of	GIL
Hospitals (all SCCo) & PHDOC	HOS
Loma Prieta Region (Santa Cruz Mtns.)	LMP
Los Altos, City of	LOS
Los Altos Hills, Town of	LAH
Los Gatos, Town of / Monte Sereno, City of	LGT
Milpitas, City of	MLP
Morgan Hill, City of	MRG

Mountain View, City of	MTV
NASA/Ames	NAM
Palo Alto, City of	PAF
San Jose, City of	SJC
San Jose Water Co	SJW
Santa Clara, City of	SNC
Santa Clara County	XSC
Santa Clara Valley Water District	VWD
Saratoga, City of	SAR
Stanford University	STU
Sunnyvale, City of	SNY

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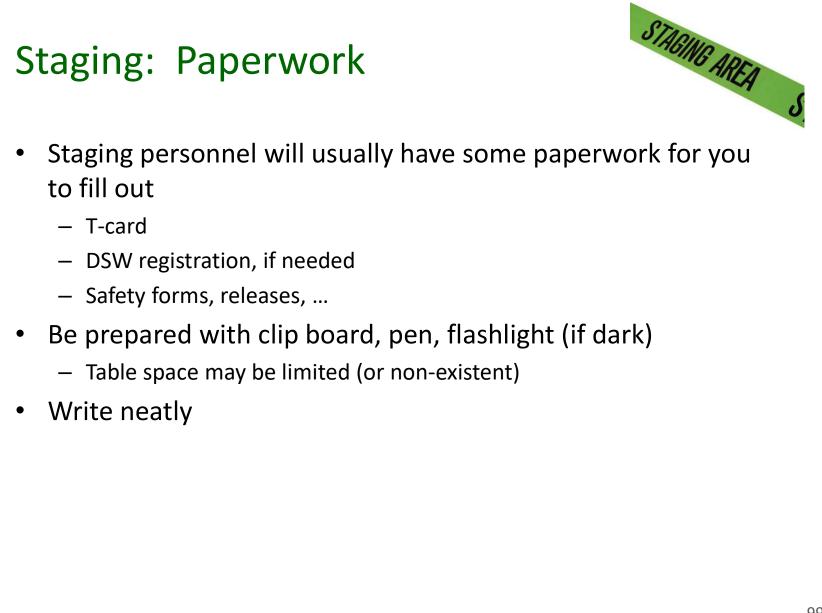
ICS 211A Check-in List (Communications)

ICS 211A CHECK IN LIST	1. INCIDENT NAME		2. DATE:	10.0000.000		4. CHECK IN LOCATION		
(COMMUNICATIONS)	Field Ops Ty	pe III Training	1	YYYY	TC-24-02T	<location></location>		
PERSONNEL NAME	CALL SIGN	AGENCY	TIME IN	TIME OUT	HOURS	REMARKS		
<your name=""></your>	<your call=""></your>	<your org=""></your>	08:30					
American Red Cross		ARC	Mount	ain View, (City of	MTV		
Campbell, City of				NASA/Ames				
Cupertino, City of		CBL	Palo Alto, City of					
Gilroy, City of		GIL		se, City of		PAF SJC		
Hospitals (all SCCo) & PH	HOS							
	Loma Prieta Region (Santa Cruz Mtns.)			LMP Santa Clara, City of				
Los Altos, City of		LOS	LOSSanta Clara CountyLAHSanta Clara Valley Water DistrictLGTSaratoga, City of					
Los Altos Hills, Town of		LAH						
Los Gatos, Town of / Mor	nte Sereno, City o	of LGT						
Milpitas, City of		MLP	MLP Stanford University					
Morgan Hill, City of		MRG	Sunny	/ale, City o	f	SNY		
<u> </u>								
ICS 211A SCCo RACES	6. NUMBER OF PAGE		7. PREPARED	BY (RESOUR	CE UNIT):	8. MISSION NUMBER		
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Be On Time!

- Notice that the assignment is for 09:00 to 12:00
- Yet, you have arrived at Staging at 08:30. Excellent!
- Take into account all activities that must be completed prior to the start of your assignment
 - Checking in and out of nets takes time
 - Unexpected traffic can cause delays
 - Finding a parking place takes time
 - Going through staging takes time
 - Programming your radio takes time
 - Getting to your assignment takes time
 - Setting up your station, takes time
- Be sure to work backwards from when you need to be on the air and plan your travel, arrival accordingly
 - For most activities arrive at staging <u>no later than 30 minutes before your shift</u>

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T-Cards

- Cards
 - T-shaped cards slip into slots in rack without falling through
 - First line visible in rack
 - May be plain, lined or pre-printed with specific fields
- Racks
 - Organizes cards for easy viewing
 - May be mounted on wall or flexible canvas for deployment
 - Can be constructed out of CD visor holders

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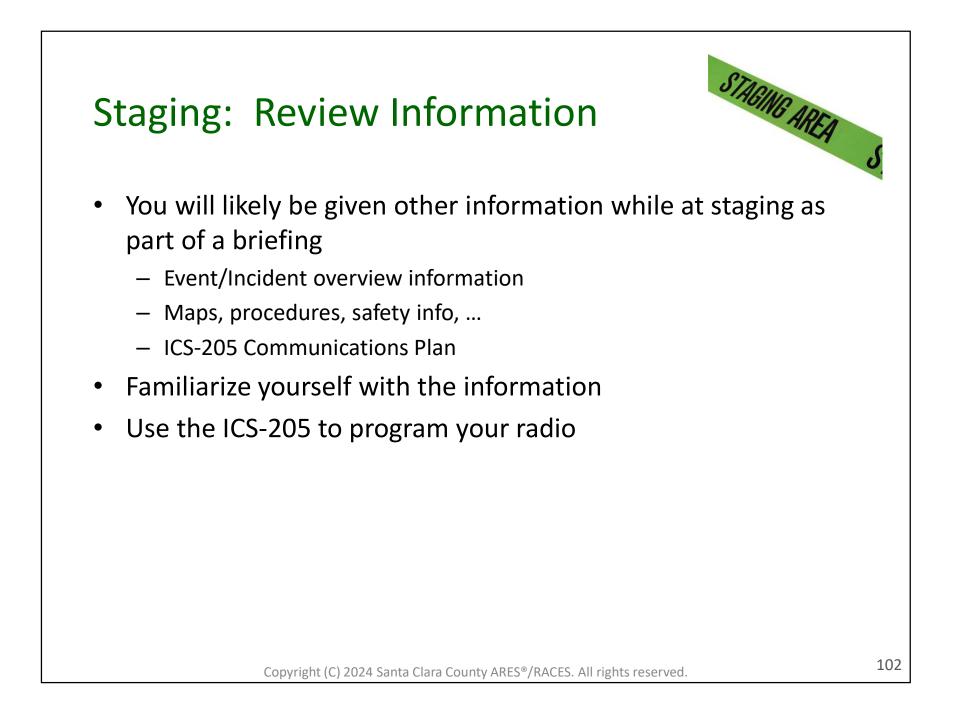
T-Cards – Typical Information

- Name (Last, First) ullet
- Agency Code •
- Call sign
- Credentials (only list highest) ullet
- Other information as requested ullet
 - Home city (Agency Code)
 - Cell Phone
 - Additional info based on event needs
- Staging will define the specific information and required format
- Complete a T-Card with your ۲ information
- Staging will keep track of your ۲ assignment

lunster, Herman	V
EXAMPLE	

Munster, Herman	W6XRL4
XXX (Agency Code)	
F3, N3, P2, S3, MAC	
or	
С4, МАС	
09:00 Assigned to Fig	eld Ops III

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Example ICS-205 Communications Plan

4. Comm	unications Resources	Coll Cine and			DUTER	THE PARTY NUMBER	T. T.	1	
Ch #	Function	Call Sign and/or Sys / Net / Ch / TG Name	Assignment	Rx Freq N/W	Rx Tone or NAC	Tx Freq N / W or + / - / S	Tx Tone or NAC	Mode A,D,M	Remarks
1	Resource	K6ABC3/R Resource Net-West	Mutual Aid Activation & Tracking	146.115 W	N/A	+	100.0	A	Use when approaching from the west.
2	Resource	N6XYZ0/R Resource Net-East	Mutual Aid Activation & Tracking	440.800 W	127.3	430.800 W	114.8	А	Use when approaching from the east.
3	Command	WA6WK9/R Command Net	Event Staff	442.500 W	100.0	+	100.0	А	Open net. All event staff should monitor.
4	Command	KZ6MHT1/R Command Net - Alt	Event Staff	146.640 W	N/A	-	162.2	A	Backup.
5	Staging	Staging Net	Unassigned Communicators	147.420 W	N/A	S	N/A	A	Contact Staging upon arrival ar when traveling between assignments.
6	Operations	KZ6MHT1/R Race Net	Checkpoints and Rovers	146.640 W	N/A	-	162.2	А	All communicators must be in contact with net control when performing their assigned dutie
7	Operations	WA6WK9/R Race Net –Alt	Checkpoints and Rovers	442.500 W	100.0	+	100.0	A	Backup.
8	Operations	MHT EOC	Command Post	3.878 LSB	N/A	s	N/A	А	HF 75m NVIS with Mockingbirc Heights EOC
9	Operations	W1MHT-1	Packet BBS Access	145.750 W	N/A	s	N/A	D	1200 baud.
10	Emergency	9-1-1	Police/Fire/Medical Requests	N/A	N/A	N/A	N/A	-	Call 9-1-1 to request first- responder assistance, THEN notify net control.
10.1 2	I Instructions e Net repeaters will be	linked. All nets are Directed	Nets unless otherwise ind	icated.			2	ï	
100	6.Prepared by	y (Communications Unit Lead	ler)			7.Prepared Date/Tir	ne		8. Page
	RACES Herman	Munster, W6XRL4				06/02/2018 0	9:30		1 of 1

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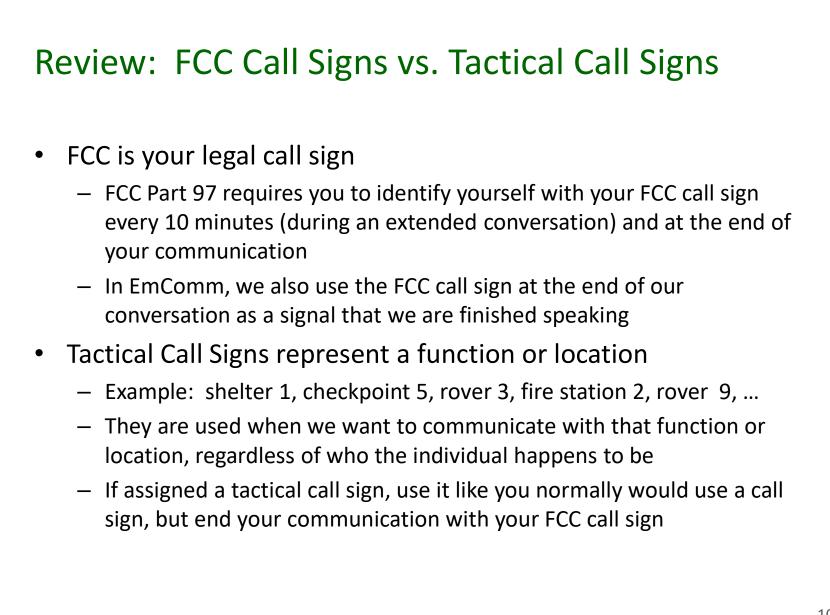
- You must be able to program your radio to whatever is listed in the ICS-205 Communications Plan
 - Simplex: Frequency, Tone/Tone-squelch, disable offset
 - Duplex (repeaters): Frequency, Offset, Tone/Tone-squelch
- Make sure you can also turn off other, inappropriate, unnecessary and troublesome features
 - Battery saver, VOX, Yaesu Wires, ...
- Programming manually, on the fly, via the keypad, without hesitation, is the only viable option for real assignments
 - Programming via computer and software is NOT practical in the field
- Take personal responsibility for mastering the operation of your own radio BEFORE you arrive

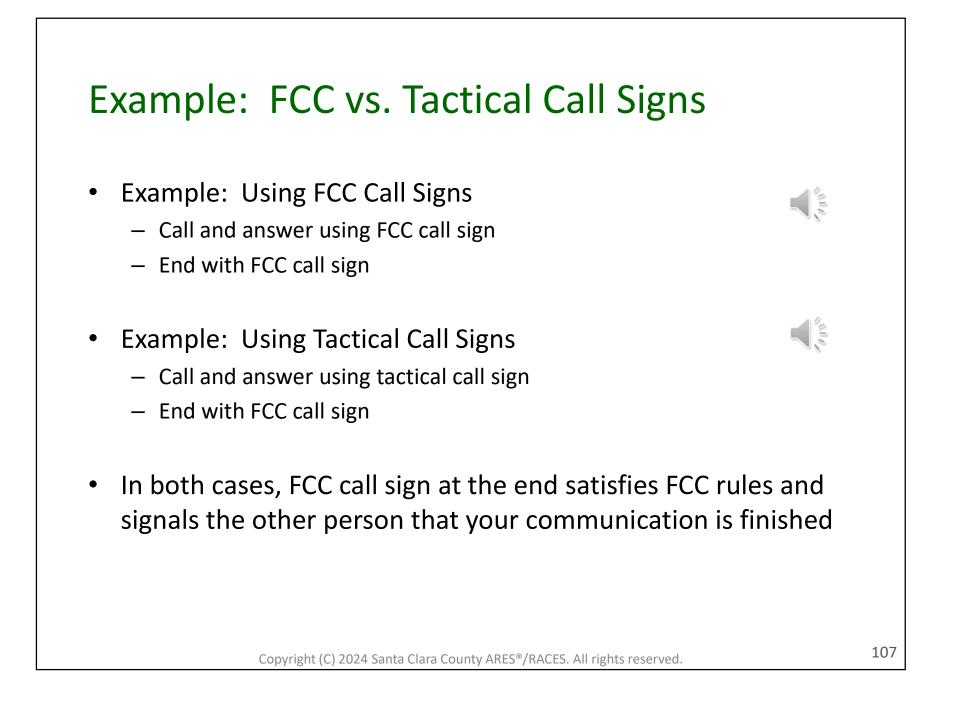


- While in staging, monitor the staging net at all times
- Use the time to:
 - Program your radio and verify its operation
 - Familiarize yourself with the information provided
- At some point, you will receive a local, specific assignment
 - The assignment may include a tactical call sign to use
 - Alternatively, net control may assign the tactical call sign
 - Again, if you don't feel safe or ready, you can refuse
- Proceed to local assignment when/as instructed

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STAGING AREA S

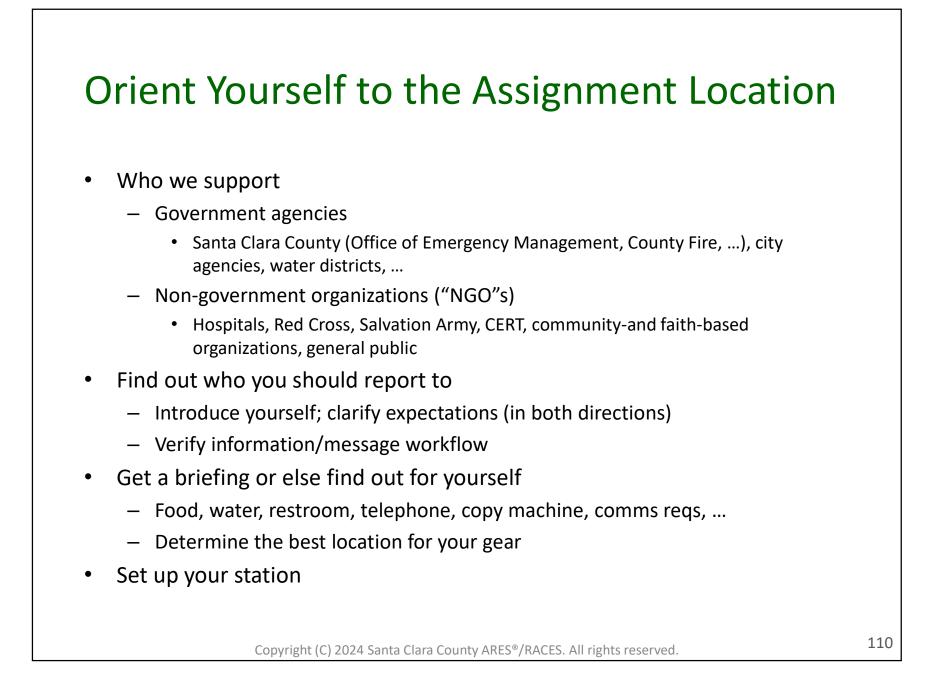






- Assume the time is now 08:50
- Staging gives you the following assignment
 - Your assignment is to participate as a student in the classroom
 - Set up your station and check into the student net on 147.525 MHz
 - Your tactical call sign will be "Student <number>"
 - Where <number> is the number you received at the beginning of class
 - Pay attention at <u>all</u> times
 - Volunteer answers to <u>all</u> questions
 - Participate <u>enthusiastically</u> in all exercises
- Update your ICS-214

UNIT L ICS 214-S ARES/RA	cco Field Ops Ty	Activation Number	Class	2. Operational Period MM/DD/ From: 09:00		
	Tactical Call / Designators			ader (Name, Call Sign,		
	<your number=""></your>			name>, <your< th=""><th></th></your<>		
5.	Mana	Personnel	March 1996 - 2016 - 200	Assigned ICS Position	llaws Dese/0th	
	Name	Call Sign	+	ICO FOSILION	Home Base/City	
			<u> </u>			
			L			
		1964				
			1			
			<u> </u>			
6.		ΔC		OG	1	
Time (24:00)						
08:00	Assignment: atte					
08:05	Departed home, o)po			
08:25						
	Arrive staging, odometer 134					
08:50	Assignment: participate as student, tactical call sign "student <your number="">"</your>					

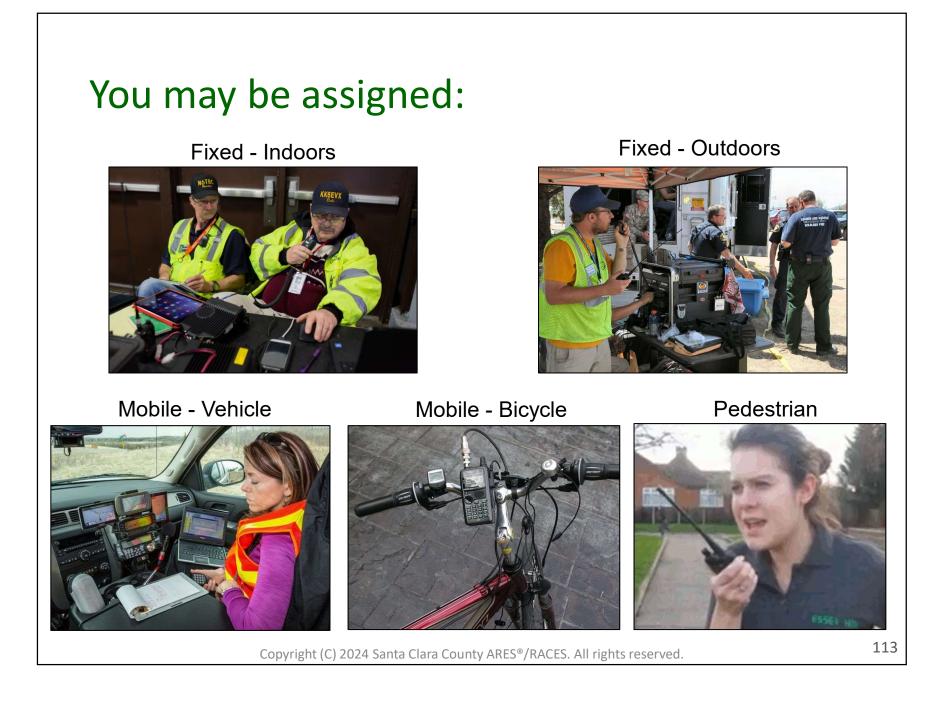


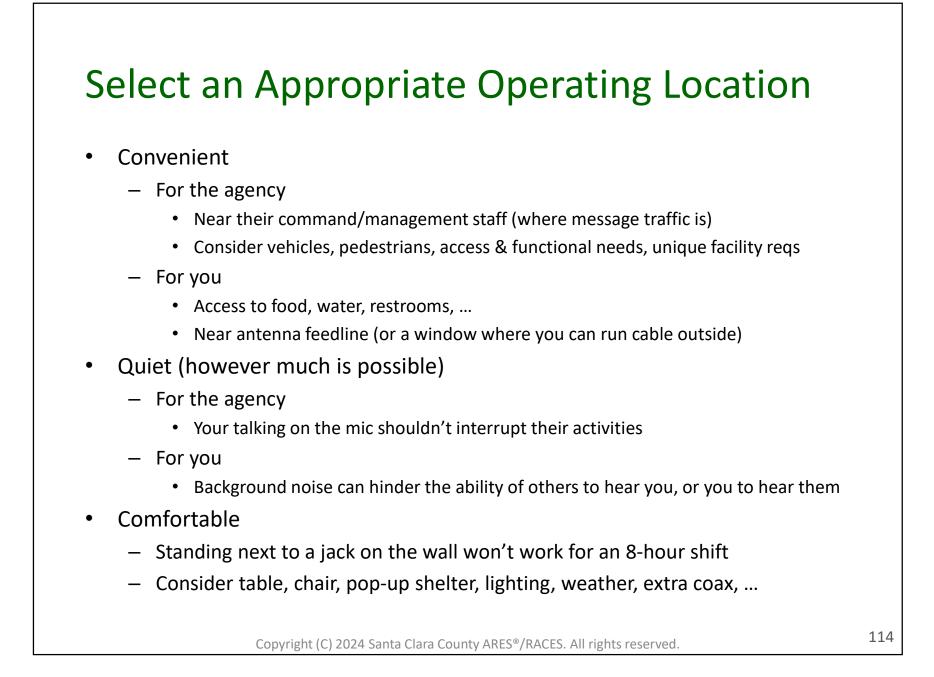
Assignment Is Not Well Defined?

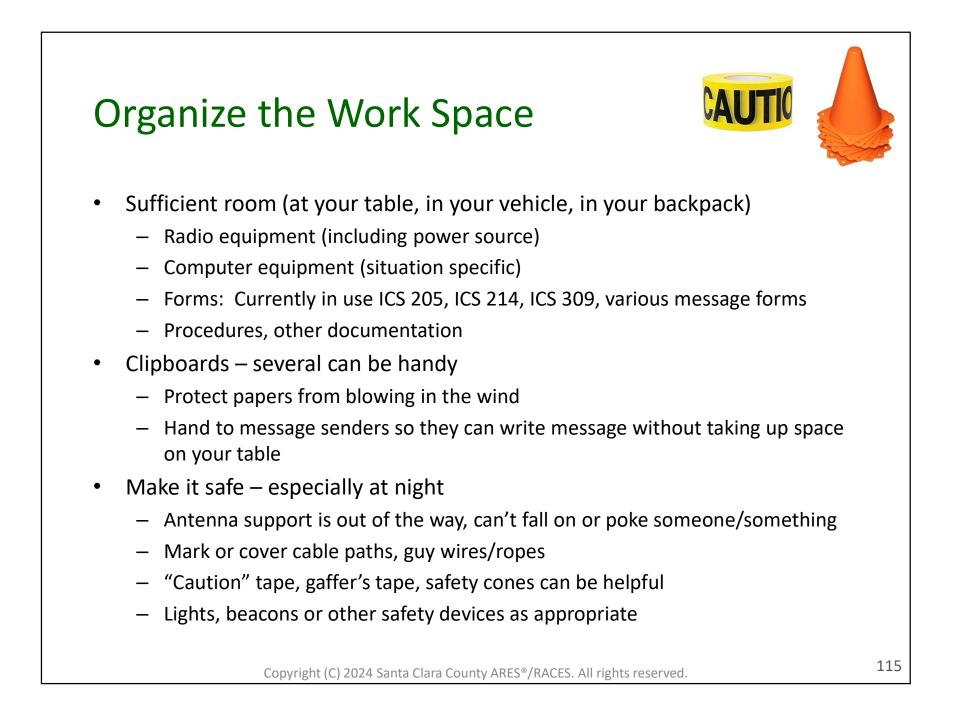
- If relieving someone, ask for a relief briefing
- Ask your Supervisor and/or Net Control for any clarification
- Discuss with the person in charge at the served agency
 - Query them if they are not sure what you can provide
 - What are their communication needs
 - Who might they need/expect to communicate with
 - What type of information or forms will they need sent or received
 - Inform them of the services you can provide and be clear on what you cannot provide
 - What key information/status are they interested in receiving

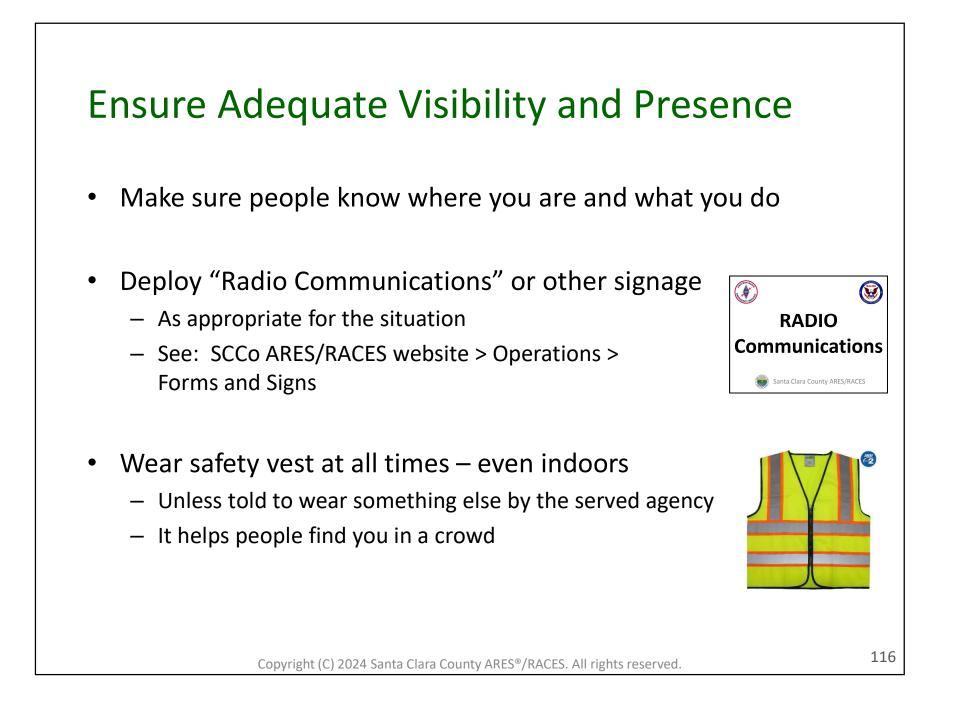
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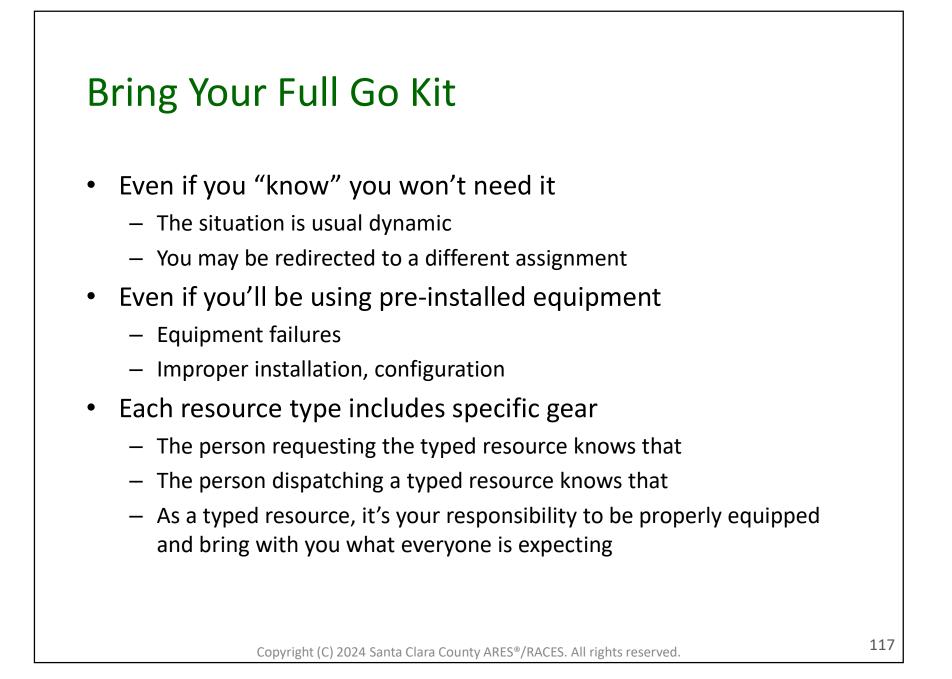








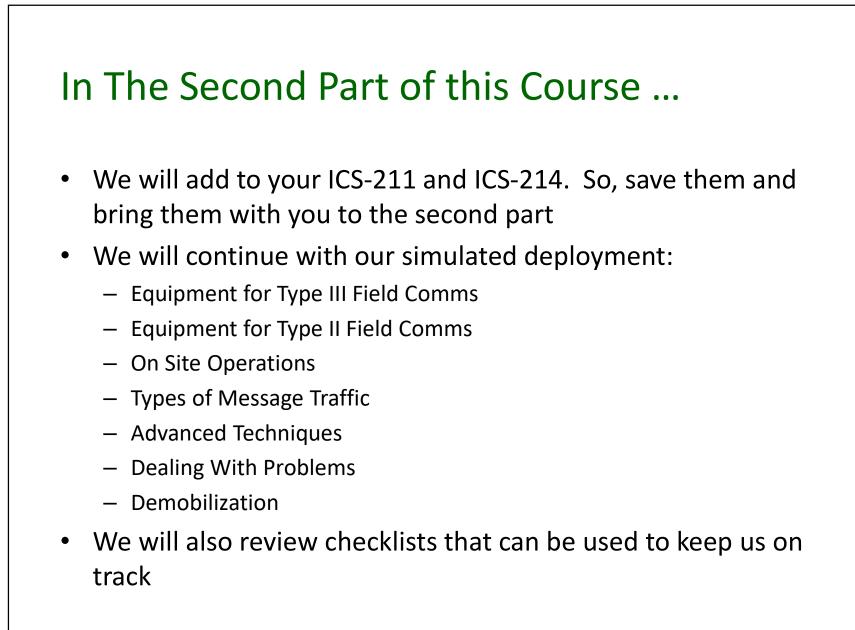


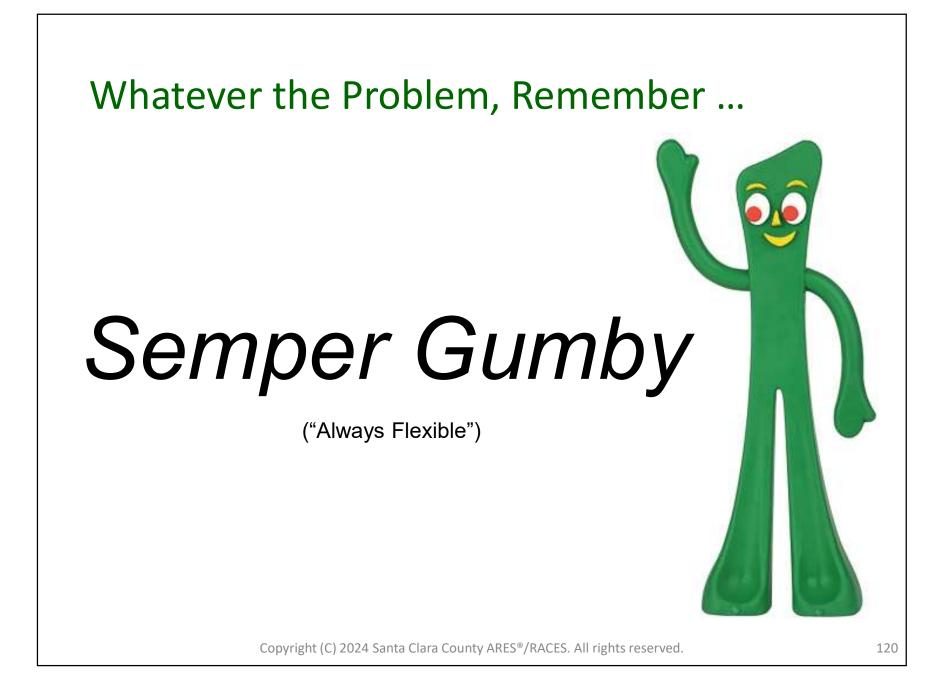


You Represent All Of Us!

- <u>You are an ambassador to the public</u> for SCCo ARES/RACES. How you perform reflects on all amateur radio operators.
- Your Responsibilities before an event
 - Learn your radio and other equipment.
 - Keep your go-kit updated (everything working, batteries charged, etc.)
 - You are responsible for staying current with SCCo documentation (frequency lists, procedures, training material, forms, etc.).
 - Verify preparation and that everything is working before arriving at your assignment.
- Your Responsibilities during an event
 - You need to be trained and fully prepared to perform the duties assigned.
 - Do not take an assignment unless you have the confidence that you can provide dependable and reliable communication services to a <u>served agency</u> in benefit to the <u>public</u> for real and public service events.

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Final Assignment	
Please complete the On-Line Class Evaluation within one week.	
To get course credit you need to: a) Attend at least 90% of the class b) Participate in class b) Complete the class evaluation	
If you do these, you will get credit for the course.	•
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nline Class E	valuatio	n	
g into <u>https://www</u>	scc-pros-rac	os org/activitios/	avonts nhn
ck "Submit Class Ev	aluation in i	events menu	
Home			
Log Out	Calendar of	Events	
Activities Home	Show: Current e	vents 💿 Past events 🔿	Event Descriptions
SCC ARES/RACES Home		••••••	
Comments/Bugs	E LLO V	T	
Events		ons Type III, Part A	_
List Events By Date	Date: 01/06/24	Start: 9:00 AM	Type: County
List Events I Joined			
Create a New Event	Prerequisites,	Course Description, and	
Modify an Event			
Delete an Event	Training Net	<u>- Message Passing Pr</u>	actice
List/Print an Event Roster	Date:	Start:	Type:
Log Event Participation	01/16/24	8:30 PM	Other
Submit Class Evaluation	This is the qu	arterly Tuesday evening	Training Net. The ti



If you have questions or feedback about this or other training activities, you can join our Training discussion group. <u>https://scc-ares-races.groups.io/g/training</u> This is a moderated group.

Reminder:

Field Operations Type III Part B & Type II is Saturday 02/01/25

See: https://www.scc-ares-races.org/activities/events.php

Class presentation with homework should be posted by Monday 1/27/2025

An email will be sent to those signed up when it is posted.

Message Passing class is on Saturday 01/25/25

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