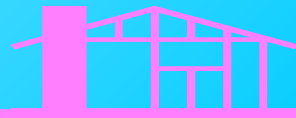


Type IV Credential Deep Dive

February 1st 2024

Sorin Constantinescu, KN6YUH

Cupertino ARES/RACES



CARES mission

The mission of Cupertino ARES is to maintain and train Amateur Radio volunteers capable of providing professional emergency communications, increasing the City's emergency response effectiveness, and speeding the recovery effort.



TYPE IV CREDENTIALING

Program Handbook. Instructions are on the next page. For specifics see these

Date	Call Sign	Operator Designee Initials	Credentialing Requirements (completed within the last two years)
			Administrative
			Work/live/active in Santa Clara County; respond to primary jurisdiction
			18 years of age or older
			Valid Technician class or higher Amateur Radio license
			Valid California driver's license or State-issued ID card
			Reliable transportation for assignments
			Has read "SCCo ARES/RACES Credentialing Program Handbook"
			Has read "SCCo ARES/RACES Perf. Stds. & Best Practices"
			Registered with primary jurisdiction as Disaster Service Worker
			Recommendation from local jurisdiction Radio Officer
			Training
			Santa Clara County ARES/RACES Training *
			Intro to Emergency Communications (or equivalent)
			Fundamentals of Emergency Communications
			Emergency Management Training **
			ICS-100 / IS-100: Intro to ICS
			ICS-200 / IS-200: ICS for Single Resources
			ICS-700 / IS-700: Intro to NIMS
			SEMS G606: Intro to SEMS
			Equipment
			All items in SCCo standard 2-hour Carry Kit
			All items in SCCo standard 12-hour Go Kit
			Knowledge
			Demonstrate personal radio familiarity
			Participation (or equivalent)
			Min 8: Ch...

Credentialing

What FEMA says

Credentialing, Training, and Exercising

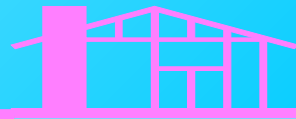
1. Ensures personnel are qualified, trained, and exercised to common standards that provide a foundation for the interoperability and compatibility of resources.
2. The credentialing process involves an objective evaluation and documentation of an individual's:
 1. Current certification, license, or degree;
 2. Training and experience; and
 3. Competence or proficiency.



Credentialing

What SCC RACES is doing

1. Credentialing in technical fields (usually called certification) has been used for 20+ years to verify an individual's ability.
2. Credentialing is becoming more prevalent in Emergency Management, especially where interoperability and compatibility (mutual aid) are needed.
3. The State of California has a credentialing program for EOC positions at local, OA, and State levels.
4. Served agencies are increasingly aware of credentialing and are expecting to build credentialed teams.
5. SCCo ARES/RACES has had a credentialing program for 15 years.



Credentialing

What CARES is doing

- Cupertino ARES/RACES is leveraging this program to enhance our overall readiness.
- Credentialing allows CARES members to understand the capabilities of each of its members.
- And, if we ever request a Mutual Aid, we would be looking for responding MACs with Credentials, so we understand what they are capable of doing.



Resource Typing

What FEMA says

Resource Typing

1. Resource typing defines and categorizes, by capability, the resources requested, deployed and used in incidents.
2. Assigning a standardized typing designation to each resource that allows Incident Commanders to request and deploy resources.

Resource: Hydraulic Excavator (Compact–Short Radius 1.75 cy to 0.61 cy Buckets)

Category: ESF #3: Public Works and Engineering

Kind: Equipment

3. Example ...

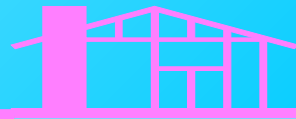
	Type I	Type II	Type III	Type IV	Other
Manufacturer	Model	Model	Model	Model	Model
Bobcat	442		430		
Hitachi			ZX27U		
John Deere				27C ZTS	
Kobelco	245SRLC, 200SRLC, 135SRLC, ED150, 115SRDZ, 70SR	50SR-3, 35SR-3, 30SR-3	27SR-3	13SR	



Resource Typing

Comparison of SCC RACES Capabilities

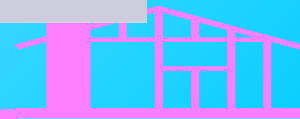
	Type V	Type IV	Type III	Type II
Equipped for up to 12 Hr shift	Unknown	Yes	Eval	Eval
Respond anywhere in jurisdiction	Unknown	Yes	Eval	Eval
Basic Net Usage Procedures	Unknown	Yes	Eval	Eval
Simple Damage/status reports	Unknown	Yes	Eval	Eval
Handle low traffic levels	Unknown	Yes	Eval	Eval
3 rd Party Traffic	Unknown	Unknown	Eval	Eval
Low-to-medium traffic levels	Unknown	Unknown	Eval	Eval
Manage problems	Unknown	Unknown	Eval	Eval
Equipped w/ mobile radio, ant	Unknown	Unknown	Unknown	Eval
Two Nets, Cross band	Unknown	Unknown	Unknown	Eval
Medium-to-high traffic levels	Unknown	Unknown	Unknown	Eval



Resource Typing

Comparison of Assignments by Types

	Type V	Type IV	Type III	Type II
Basic Net Usage, Status Reports <ul style="list-style-type: none">• Parades, festivals, races• Checkpoints, flood watch• Damage surveys• CERT team support (simple rpts)	Unknown	Yes	Eval	Eval
3 rd Party Traffic (Low/Med) <ul style="list-style-type: none">• CERT team support (complex rpts)• Schools, shelters• Jurisdiction EOC (smaller)• Hospitals• Allied health facilities• Fire stations	Unknown	Unknown	Eval	Eval
3 rd Party Traffic (Med/High), 2 nets <ul style="list-style-type: none">• Med Health Joint Ops Ctr (MHJOC)• Jurisdiction EOC (larger)• County EOC	Unknown	Unknown	Unknown	Eval



Resource Typing

Credential Overview

Expertise	Role				
	Field	Net Control	Shadow	Packet	HF*
Type I Specialist	Field I	Net Control I	Shadow I	Packet I	HF I
Type II Advanced	Field II	Net Control II	Shadow II	Packet II	HF II
Type III Independent	Field III	Net Control III	Shadow III	Packet III	HF III
Type IV Basic	Communicator IV				
Type V Unknown	Licensed Amateur Radio Operator (w/ DSW), Not Credentialed				

*HF credential is TBD



Resource Typing

County Certification and endorsement counts (1/14/2024)

Credential	Field Operator	Net Control	Packet Operator	Shadow
Type I	5	6	0	5
Type II	16	12	13	9
Type III	42	29	32	18
Type IV	57			

Endorsement	Earned
Mutual Aid Communicator (MAC)	39
County Fire Station Radio Operator (Pending)	0
County EOC Radio Operator	13
County EOC RACES Unit Leader (Pending)	0

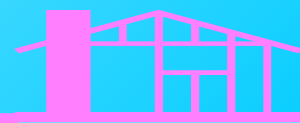


Resource Typing

Cupertino Certification and endorsement counts (1/17/2024)

Credential	Field Operator	Net Control	Packet Operator	Shadow
Type I	2	2	0	2
Type II	2	2	3	2
Type III	8	4	7	3
Type IV	13			

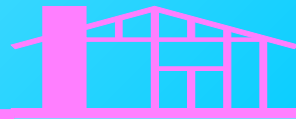
Endorsement	Earned
Mutual Aid Communicator (MAC)	9
County Fire Station Radio Operator (Pending)	0
County EOC Radio Operator	3
County EOC RACES Unit Leader (Pending)	0



What is a Type IV Operator

Type IV Credentialing

- A Type IV credential level indicates basic operating capabilities. It is not role specific.
- The Type IV operator has the basic skills, standard equipment, and a moderate amount of experience, all of which enables him/her to operate safely in an assignment, perhaps with coaching.
- Typical assignments include basic information gathering and status reporting or supporting a more experienced operator.



Getting to Type IV

Type IV Credentialing

SCCo RACES Credential Record

Type IV Communicator

Name: _____ Call Sign: _____ Jurisdiction: _____

All activities must be performed according to the Performance Standards. For specifics of each of these requirements, consult the Credentialing Program Handbook. Instructions are on the next page.

Radio Officer or Designee			Credential Requirements (completed within the last two years)
Date	Call Sign	Initials	
			Administrative
			Work/live/active in Santa Clara County; respond to primary jurisdiction
			18 years of age or older
			Valid Technician class or higher Amateur Radio license
			Valid California driver's license or State-issued ID card
			Reliable transportation for assignments
			Has read "SCCo ARES/RACES Credentialing Program Handbook"
			Has read "SCCo ARES/RACES Perf. Stds. & Best Practices"
			Registered with primary jurisdiction as Disaster Service Worker
			Recommendation from local jurisdiction Radio Officer
			Training
			Santa Clara County ARES/RACES Training *
			Intro to Emergency Communications (or equivalent)
			Fundamentals of Emergency Communications
			Emergency Management Training **
			ICS-100 / IS-100: Intro to ICS
			ICS-200 / IS-200: ICS for Single Resources
			ICS-700 / IS-700: Intro to NIMS
			SEMS G606: Intro to SEMS
			Equipment
			All items in SCCo standard 2-hour Carry Kit
			All items in SCCo standard 12-hour Go Kit
			Knowledge
			Demonstrate personal radio familiarity per Credential handbook
			Participation (or equivalent, as determined by local jurisdiction RO) *
			Min 8: Check into weekly city net
			Min 8: Monitor weekly SPECs or SVECS net
			Min 2: Radio oper duty at quarterly drills
			Min 1: Radio oper duty at approved functional or full-scale exercise
			Min 1: Radio oper duty at approved public service event or incident
			Performance
			Functioned effectively & professionally with served agency
			Has maturity and experience to perform according to "SCCo ARES/RACES Performance Standards and Best Practices"
			Ongoing Participation
			Agree to minimum training and participation requirements

Santa Clara County ARES®/RACES Go Kit Checklists

Revised: 03-Jun-2018

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 batt)
 - 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 (heat, 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:
 - Powerpoles
 - 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

- R Small backpack, vest, chest harness or other similar method for carrying HT while operating portable

Mobile or Stationary Radio Equipment:

- R 2m/70cm mobile radio (separate/removable from vehicle)
 - 25W minimum
 - Dual-receive, cross-band repeat
- R Radio user manual or cheat sheet
- R Headset (stereo recommended for VFO per ear) w/ inline, handswitch or footswitch PTT
- R Battery for 12-hours operation (20 Ah min.; 26 Ah rec.)
- R Power cord adapters – connect mobile to power sources:
 - Powerpoles
 - Cigarette lighter socket
 - Vehicle battery terminals
- R Powerpole splitter or fused distribution panel
- R Spare fuses
- R Coax adapter: connect mobile radio to coax
- R Min. 25 add'l feet of 50 Ohm coaxial cable w/barrel conn.
- R Extension cord, 3-wire, 3-6 ft., multi-outlet
- O Extension cord, 3-wire, 50-100 ft.

Antennas:

- X Coax adapters: connect coax to existing antenna jack:
 - BNC plug (male) & BNC socket (female)
 - UHF plug (PL-259) & UHF socket (SO-239)
 - N-type plug (male) and N-type socket (female)
- X 2m/70cm dual-band magnetic or window mount antenna
- R 2m/70cm high gain HT antenna
- R 2m/70cm dual-band portable base antenna (e.g. roll-up J-pole or other)
- R Portable mast (elevates antenna base min. 10 ft.)
- R Tripod or other self-supporting base for mast
- R Window clip antenna mount (for non-metallic vehicles)

Packet Equipment:

- O Laptop with Outpost and PacFORMS installed
- O USB flash drive (i.e. USB key)
- O TNC (may be hardware, software or built into radio)
- O Cables: TNC to radio; TNC to PC
- O Shade cover for display
- O Portable printer
- O Entire station can operate for min. 1 hr on battery

Other Communications Gear:

- R Cell phone & charger and/or cigarette lighter adapt.
- O FRS/GMRS Radio
- O Satellite phone

Tools:

- R Duct tape
- R Electrical tape
- R Nylon Tie-Wraps/wire ties
- R Utility knife
- R Small multi-tool or tool kit

Santa Clara County ARES®/RACES

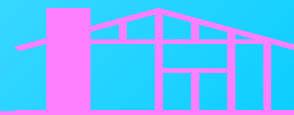
Page 1 of 4

Santa Clara County ARES®/RACES

Page 2 of 4

Santa Clara County ARES®/RACES

Page 3 of 4



Getting to Type IV

Type IV Credentialing

Meet a set of well-defined requirements:

1. Administrative
2. Training
3. Equipment
4. Knowledge
5. Participation
6. Performance
7. Ongoing participation

Local jurisdictions may have additional requirements and make the Type IV Credential a part of their overall requirements.

SCCo RACES Credential Record

Type IV Communicator

Name: _____ Call Sign: _____ Jurisdiction: _____

All activities must be performed according to the Performance Standards. For specifics of each of these requirements, consult the Credentialing Program Handbook. Instructions are on the next page.

Radio Officer or Designee			Credential Requirements (completed within the last two years)
Date	Call Sign	Initials	
			Administrative
			Work/live/active in Santa Clara County; respond to primary jurisdiction
			18 years of age or older
			Valid Technician class or higher Amateur Radio license
			Valid California driver's license or State-issued ID card
			Reliable transportation for assignments
			Has read "SCCo ARES/RACES Credentialing Program Handbook"
			Has read "SCCo ARES/RACES Perf. Stds. & Best Practices"
			Registered with primary jurisdiction as Disaster Service Worker
			Recommendation from local jurisdiction Radio Officer
			Training
			Santa Clara County ARES/RACES Training *
			Intro to Emergency Communications (or equivalent)
			Fundamentals of Emergency Communications
			Emergency Management Training **
			ICS-100 / IS-100: Intro to ICS
			ICS-200 / IS-200: ICS for Single Resources
			ICS-700 / IS-700: Intro to NIMS
			SEMS G606: Intro to SEMS
			Equipment
			All items in SCCo standard 2-hour Carry Kit
			All items in SCCo standard 12-hour Go Kit
			Knowledge
			Demonstrate personal radio familiarity per Credential handbook
			Participation (or equivalent, as determined by local jurisdiction RO) *
			Min 8: Check into weekly city net
			Min 8: Monitor weekly SPECS or SVECS net
			Min 2: Radio oper duty at quarterly drills
			Min 1: Radio oper duty at approved functional or full-scale exercise
			Min 1: Radio oper duty at approved public service event or incident
			Performance
			Functioned effectively & professionally with served agency
			Has maturity and experience to perform according to "SCCo ARES/RACES Performance Standards and Best Practices"
			Ongoing Participation
			Agree to minimum training and participation requirements

1. Administrative

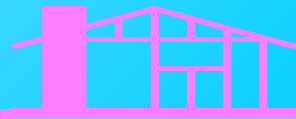
Type IV Credentialing

Radio Officer			Credential Requirements
Date	Call Sign	Initials	
			Administrative
			Work/live/active in Santa Clara County; respond to primary jurisdiction
			18 years of age or older
			Valid Technician class or higher Amateur Radio license
			Valid California driver's license or State-issued ID card
			Reliable transportation for assignments
			Has read "SCCo ARES/RACES Credentialing Program Handbook"
			Has read "SCCo ARES/RACES Perf. Stds. & Best Practices"
			Registered with primary jurisdiction as Disaster Service Worker
			Recommendation from local jurisdiction Radio Officer

Where to find them

<https://www.scc-ares-races.org> > Operations > Programs > Credentials

<https://www.scc-ares-races.org> > Operations > Standards > General



2. Training

Type IV Credentialing

Radio Officer			Credential Requirements
Date	Call Sign	Initials	
			Training
			Santa Clara County ARES/RACES Training
			Intro to Emergency Communications (or equivalent)
			Fundamentals of Emergency Communications
			Emergency Management Training
			ICS-100 / IS-100: Intro to ICS
			ICS-200 / IS-200: ICS for Single Resources
			ICS-700 / IS-700: Intro to NIMS
			SEMS G606: Intro to SEMS

Where to find them

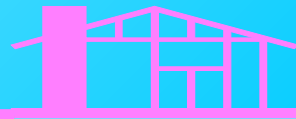
1. Introduction to Emergency Communications Class... Saturday, February 10th 2024 ... in Sunnyvale!

2. ICS-100: <https://training.fema.gov/is/courseoverview.aspx?code=IS-100.c>

3. ICS-200: <https://training.fema.gov/is/courseoverview.aspx?code=IS-200.c>

4. ICS-700: <https://training.fema.gov/is/courseoverview.aspx?code=IS-700.b>

5. SEMS-G606: https://csti-ca.csod.com/catalog/CustomPage.aspx?id=20000553&tab_page_id=20000553&tab_id=20000590



3, 4. Equipment, Knowledge

Type IV Credentialing

Radio Officer			Credential Requirements
Date	Call Sign	Initials	
			Equipment
			2-hour Carry Kit
			12-hour Go Kit
			Knowledge
			Demonstrate personal radio familiarity per Credential handbook



3. Equipment

Getting to the Go Kit

1. Over 120 items on the SCC RACES Go Kit list
2. Only 49 are REQUIRED!
3. Most of them you probably already have
4. Note the Legend:
 - X – Required
 - R – Recommended
 - O - Optional

Santa Clara County ARES®/RACES Go Kit Checklists Revised: 03-Jun-2018

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 batt)
 - 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 (heat, 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-recv 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:
 - Powerpoles
 - 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

3. Equipment

Getting to the Go Kit

1. One approach – think modular

Category	Description
Antennas	<ul style="list-style-type: none"> 2m/70cm dual-band magnetic or window mount antenna Coax adapters: connect coax to existing antenna jack
Clothing	<ul style="list-style-type: none"> Hat (broad brim recommended) Long pants (no shorts) Seasonal jacket / rain gear Sturdy, closed-toe shoes (no sandals)
Contact Lists	<ul style="list-style-type: none"> DEC/ADEC and city EC telephone contact list Police/Fire direct dial phone numbers SCCo Voice and Packet Frequency Lists
Documentation > ID	<ul style="list-style-type: none"> Amateur Radio license CA Driver's license or CA-issued ID card County Emergency Responder ID card or MAC badge If issued: SCCo ID badge, city badge, MAC Qual card
Documentation > Maps	<ul style="list-style-type: none"> Compass or GPS Paper or offline maps covering all Santa Clara Co. [Note 3]
Food & Water	<ul style="list-style-type: none"> Food for 12 hours (make your own list) Water for 12 hours (3-4 quarts recommended)
Forms and Docs	<ul style="list-style-type: none"> ICS 205-SCCo – Communications Plan (min. 5) ICS 211A-SCCo – Communications Check-In (min. 5) ICS 213-SCCo – Message (min. 10) ICS 214-SCCo – Unit Activity Log (min. 5) ICS 309-SCCo – Communications Log (min. 5) ICS 314-SCCo – Windshield Survey (min. 5) Modified Mercalli (Mike-Mike) scale Phone message pad (2-part style recommended)
General Items	<ul style="list-style-type: none"> Money (paper and coin) – in case ATMs are down Watch or clock
Logging & Note Taking	<ul style="list-style-type: none"> At least 2 pens / pencils Clipboard (covered type recommended) Notepads (standard or waterproof)
Operating Position	<ul style="list-style-type: none"> Sign(s) for operating position
Personal Safety Gear	<ul style="list-style-type: none"> Flashlight or headlamp and spare batteries for 12 hours Safety vest, ANSI Class 2, safety yellow/lime yellow
Portable Radio Eqt	<ul style="list-style-type: none"> 2m/70cm dual-band handie-talkie (HT) Charged batteries for 12 hours (min. 3000 mAh) [Note 2] Coax adapter: connect HT to coax Earbud or speaker/mic/earbud Min. 25 feet of 50 Ohm coaxial cable Power cord adapters – connect HT to power sources Radio user manual or cheat sheet Spare fuses

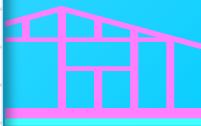


3. Equipment

Getting to the Go Kit

1. One approach – think modular
2. Where are they when not in use?

Loc #1	Description
Car	County Emergency Responder ID card or MAC badge
	Hat (broad brim recommended)
	If issued: SCCo ID badge, city badge, MAC Qual card
CarryBag	2m/70cm dual-band handie-talkie (HT)
	At least 2 pens / pencils
	Clipboard (covered type recommended)
	DEC/ADEC and city EC telephone contact list
	ICS 205-SCCo – Communications Plan (min. 5)
	ICS 211A-SCCo – Communications Check-In (min. 5)
	ICS 213-SCCo – Message (min. 10)
	ICS 214-SCCo – Unit Activity Log (min. 5)
	ICS 309-SCCo – Communications Log (min. 5)
	ICS 314-SCCo – Windshield Survey (min. 5)
	Modified Mercalli (Mike-Mike) scale
	Money (paper and coin) – in case ATMs are down
	Notepads (standard or waterproof)
	Phone message pad (2-part style recommended)
	Police/Fire direct dial phone numbers
	SCCo Voice and Packet Frequency Lists
	Sign(s) for operating position
	Watch or clock
Garage	Sturdy, closed-toe shoes (no sandals)
House	Food for 12 hours (make your own list)
	Long pants (no shorts)
	Seasonal jacket / rain gear
	Water for 12 hours (3-4 quarts recommended)
Iphone	Compass or GPS
	Paper or offline maps covering all Santa Clara Co. [Note 3]
KnapSack	2m/70cm dual-band magnetic or window mount antenna
	Charged batteries for 12 hours (min. 3000 mAh) [Note 2]
	Coax adapter: connect HT to coax
	Coax adapters: connect coax to existing antenna jack
	Earbud or speaker/mic/earbud
	Flashlight or headlamp and spare batteries for 12 hours
	Min. 25 feet of 50 Ohm coaxial cable
	Power cord adapters – connect HT to power sources
	Radio user manual or cheat sheet
	Safety vest, ANSI Class 2, safety yellow/lime yellow
	Spare fuses
Wallet	Amateur Radio license
	CA Driver's license or CA-issued ID card



3. Equipment

Getting to the Go Kit

1. One approach – think modular
2. Where are they when not in use?
3. Group like things
4. Consider size and bulk

Loc #1	Loc#2	Description
Car	Clothing	Hat (broad brim recommended)
	Lanyard	County Emergency Responder ID card or MAC badge
		If issued: SCCo ID badge, city badge, MAC Qual card
CarryBag	CB-Binder	DEC/ADEC and city EC telephone contact list
		ICS 205-SCCo – Communications Plan (min. 5)
		ICS 211A-SCCo – Communications Check-In (min. 5)
		ICS 213-SCCo – Message (min. 10)
		ICS 214-SCCo – Unit Activity Log (min. 5)
		ICS 309-SCCo – Communications Log (min. 5)
		ICS 314-SCCo – Windshield Survey (min. 5)
		Modified Mercalli (Mike-Mike) scale
		Police/Fire direct dial phone numbers
		SCCo Voice and Packet Frequency Lists
		Sign(s) for operating position
	CB-Main	2m/70cm dual-band handie-talkie (HT)
		Clipboard (covered type recommended)
		Notepads (standard or waterproof)
		Watch or clock
	CB-Pocket	At least 2 pens / pencils
		Money (paper and coin) – in case ATMs are down
		Phone message pad (2-part style recommended)
Garage	Clothing	Sturdy, closed-toe shoes (no sandals)
House	Clothing	Long pants (no shorts)
		Seasonal jacket / rain gear
	Cooler	Food for 12 hours (make your own list)
		Water for 12 hours (3-4 quarts recommended)
Iphone	Iphone	Compass or GPS
		Paper or offline maps covering all Santa Clara Co. [Note 3]
KnapSack	KS-Main	Min. 25 feet of 50 Ohm coaxial cable
		Safety vest, ANSI Class 2, safety yellow/lime yellow
	KS-Pocket	2m/70cm dual-band magnetic or window mount antenna
	Lighting Kit	Flashlight or headlamp and spare batteries for 12 hours
	Power Kit	Power cord adapters – connect HT to power sources
		Spare fuses
	Radio Bag	Radio user manual or cheat sheet
	Radio Support 1	Charged batteries for 12 hours (min. 3000 mAh) [Note 2]
		Earbud or speaker/mic/earbud
	Radio Support 2	Coax adapter: connect HT to coax
		Coax adapters: connect coax to existing antenna jack
Wallet	Wallet	Amateur Radio license
		CA Driver's license or CA-issued ID card

3. Equipment

Sorin's approach

All my equipment is stored in two backpacks:

- One is always in the car
 - HT, earpiece, extra battery, radio manuals, all forms, notebook + phone-pad, fuses, headlamp, and a few cables
- The other one is always at home
 - Has everything else



3. Equipment

Go-Kit related links

- [All 13 SCCo forms](#) in a single download.
- Coax connectors [1](#), [2](#), [3](#), [4](#), [5](#), [6](#), [7](#).
- 2-part [\\$8 phone message pad](#).
- Covered [\\$12 clipboard](#).
- SCCo [voice](#) & [packet](#) frequency list.
- [DEC/ADEC](#) & [city EC](#) phone numbers.

Tae's "Tips on getting your credential(s)" full presentation is [here](#).



3. Equipment

Getting to the Go Kit

1. If you're in doubt on what to select, you can also check Steve Roth's [Annotated Go Kit List](#)
2. What about maps? Look at maps for your smart phone...
 - [Google Maps](#): Download an offline map covering Santa Clara County
 - [maps.me](#)
 - [MagicEarth](#): Download the California offline map



4. Knowledge

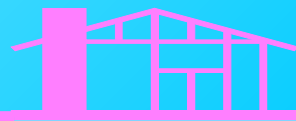
Type IV Credentialing

Radio Officer			Credential Requirements
Date	Call Sign	Initials	
			Equipment
			2-hour Carry Kit
			12-hour Go Kit
			Knowledge
			Demonstrate personal radio familiarity per Credential handbook

Personal Radio Familiarity

Configure radio to perform each of the following unaided:

1. Simplex without tone
2. Simplex with tone and tone squelch
3. Repeater with offset and CTCSS tone
4. Save configurations to and recall from memory
5. Lock keypad or mic controls, if so equipped
6. Full/factory reset (clear all settings) [explain only; demonstration not required]



5. Participation

Type IV Credentialing

Radio Officer			Credential Requirements
Date	Call Sign	Initials	
			Participation (or equivalent, as determined by local jurisdiction RO)
			Min 8: Check into weekly city net
			Min 8: Monitor weekly SPECS or SVECS net
			Min 2: Radio oper duty at quarterly drills
			Min 1: Radio oper duty at approved functional or full-scale exercise
			Min 1: Radio oper duty at approved public service event or incident

NOTE: Ensure that you participate in each of the three different events: quarterly drill, functional or full-scale exercise and public service event.

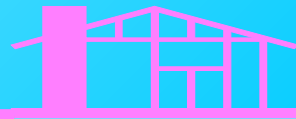
NOTE: Each of these events **MUST** have the Credential Credit flag set in order to count against your credential.



6, 7. Performance, Participation

Type IV Credentialing

Radio Officer			Credential Requirements
Date	Call Sign	Initials	
			Performance
			Functioned effectively & professionally with served agency
			Has maturity and experience to perform according to "SCCo ARES/RACES Performance Standards and Best Practices"
			Ongoing Participation
			Agree to minimum training and participation requirements



How do we get there?

Type IV Credentialing

1. New Members: Type IV is an expectation for membership
2. You are not alone... contact us if you need help!

And don't forget... we still need you to get your CARES field responder!



What's in it for me?

Obtaining the Credential IV (C4) comes with a bunch of advantages:

- You'll likely to be selected for an assignment before an un-credentialed member is
- Receive assignments for which you're already prepared
- Boost in self-confidence that you're prepared for the job
- Your go-kit is complete and everything is ready to go
- Less stressful if both you and your supervisors know you're well prepared for the assignment
- You know how to do things by the book, not following the people transmitting before you



Final Thoughts

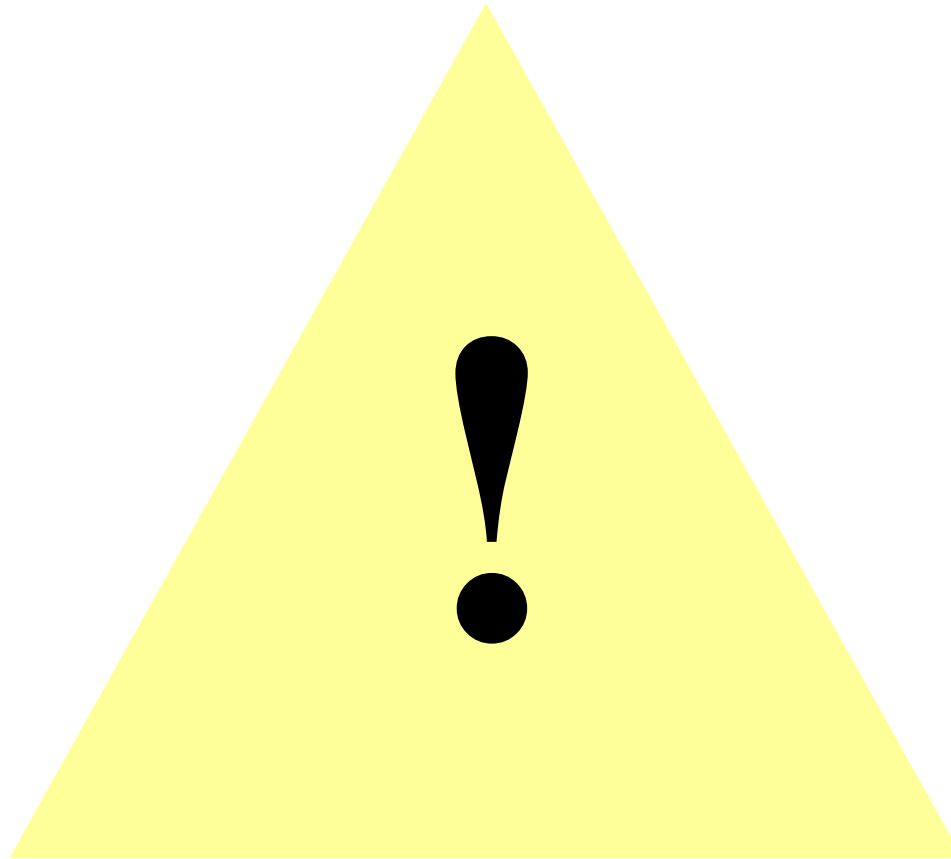
Q: What happens if I do not pursue a Type IV Credential?

A: You are still needed in CARES! Not having a Type IV may limit your assignment based on the needs of our Served Agencies.



Thank you

Any Questions?



Cupertino ARES/RACES



1-Feb-2024

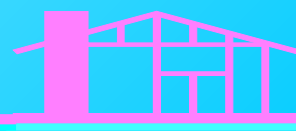
Type IV Credentials Deep Dive

Ref: IS-703.A: NIMS Resource Management

Ref: <https://training.fema.gov/emiweb/is/is703a/student%20manual/unit%204%20sm.pdf>



Cupertino ARES/RACES



1-Feb-2024

Type IV Credentials Deep Dive