

Advanced ECS

How to Magnify Your Calling

Magnify

- **mag·ni·fy**
- *verb* \ˈmæg-nə-ˈfī\
- **mag·ni·fied****mag·ni·fy·ing**
- **Definition of *MAGNIFY***
- transitive verb
- 1 : [extol](#), [laud](#) *b* : to cause to be held in greater esteem or respect
- 2 : to increase in significance : [intensify](#) : [exaggerate](#)
<*magnifies* every minor issue to crisis proportions>
- 3: to enlarge in fact or in appearance
- intransitive verb: to have the power of causing objects to appear larger than they are



- **Magnifying Our Callings**
- “What does it mean to magnify a calling? It means to build it up in dignity and importance, to make it honorable and commendable in the eyes of all men, to enlarge and strengthen it, to let the light of heaven shine through it to the view of other men. And how does one magnify a calling? Simply by performing the service that pertains to it.”
- President [Thomas S. Monson](#), “The Call of Duty,” Ensign, May 1986, 38–39.

How does that apply to me as an ECS?

Two Things

1. Learn our Duty
2. Do it

Learn Your Duty

I guess we can Learn our Duty by following a
Logical Progression-

“From Zero to Hero”

Logical Progression

- Start with getting Your Technician Class License.

Logical Progression

- Then Get Your First Radio



Probably A Handie Talkie (“HT”)

Logical Progression

- I Like the fairly Cheaply Priced Wouxun HT. (\$120)
- I also like the Yaesu FT-60R (\$159)
- A 2-Watt Dual Band BaoFeng HT is about \$45.

Whatever you pick— It is best to get a Dual Band HT so you can work on the 2meter Band and the 70cm Band. For ERC we will use UHF.

Logical Progression

Powerwerx

KG-UV3D-2/UHF

WOUXUN 2M/440 DUAL BAND HT 128 MEMS

1700MAH LI-ON BATTERY

HRO Discount Price: **\$119.99**



Logical Progression

Accessories For Your HT

1. Programming Cable \$16.99

Makes Life Easier

- 2. AA Battery Pack for HT
\$12.99



- Through in a Brick of “AA” Batteries from Costco

Logical Progression

- Add an Extra Battery Pack \$27.99



Logical Progression

- Add a Magnetic Mount Antenna (Mag Mount)

\$37.99

Use it on your Car Roof,
Cookie Sheet, Refrigerator,
Or any metal surface.



R U Steel A Wake

- Add a High Gain Antenna \$22.99



Logical Progression

- There are many more accessories you can get; but these are the Basics.
- So, now what? **Find an Elmer.**

Logical Progression

- Start by getting everything setup to check-in to a Local Radio Training NET.
- Many Wards have periodic Nets.
- Each Stake Should hold Nets.
- I like—

Regional ERC Sunday Evening Net

146.700 MHZ at 9pm

Logical Progression

- If your Ward & Stake don't Currently hold Periodic NETS; ask them to do so.
- As part of the Net practice moving from a Memory Channel to a VFO Frequency.
- Also, practice Using Repeaters and Simplex.
- Ask to be the Net Control Operator once in awhile.
- Get comfortable Checking-in and running a Net.

Logical Progression

Now that you have your HT up and running See what you can do with it.

What Repeaters can you Reach?

Does it Cross-Band Repeat?

What difference does a better Antenna make?

How long do the Batteries last?

How long to Charge the Batteries?

Logical Progression

- Optimize your Radio, Antenna, & Power Sources so you can get the most out of your HT.
- During a training Exercise Shadow a Priesthood Leader and be his Communicator.

Logical Progression

- Now that you are Proficient in using your HT for VHF & UHF Voice-----

Help Elmer a new Technician Class Licensee

Logical Progression

- Move into Digital Communications

Break down and by an interface device.

Sound Card Interface:

Signalink USB Group Price \$85

Terminal Node Controller :

KPC-3+ About \$200

KPC-3+ TNC \$200

Eventually get both a Signalink & a TNC.



Logical Progression

- Hook up your Interface
- Get an old Laptop(can run on an Inverter on Car Battery or get DC to DC Converter)
- Load on Software you wish to use
- Start experimenting with VHF/UHF Packet Radio
- Learn the Packet Command Set.

Logical Progression

- Once you figure out how it works, then be sure that you Send some Message via Packet Radio each Week.
- Practice posting something to a TNC BBS.
- Practice Sending something to a Packet Node's BBS.
- If you like Packet, consider hosting a BPQ Node for others to use.

Logical Progression

- Now that you understand Packet Radio and have some proficiency in it, Train Others.

Be An **ELMER** regarding Packet Radio in your Ward & Stake.

Logical Progression

- Now that you are comfortable on your radio, and understand how Nets & Packet Radio works, it's probably time for you to start studying for your General Class License.
- You should get your General Class License so you can be a Volunteer Examiner (VE) and so you are prepared for learning to use the HF Bands.

Logical Progression

- While you are preparing for your General License you ought to learn another Digital System—

VHF/UHF WinLink.

Since it is VHF/UHF it has limited range.

All you need to do is tie into a nearby RMS Gateway that still has Internet Access and you are set.

Logical Progression

- Become Proficient in using AirMail &/or RMS Express to use the Winlink System.
- Learn to send Text Messages to Cell Phones via WinLink.
- Learn what is in the “Catalog” and how to access it.
- Send emails to areas away from here.

Logical Progression

- Once you are Proficient with the WinLink System via VHF/UHF, then share your knowledge.
- Be an **ELMER**.

Logical Progression

- Take & Pass the General Class License Exam.
- Become a W5YI Volunteer Examiner (VE).
- Then use your W5YI credentials to get your ARRL VE Credentials. (No ARRL VE test if you do it in this order.)
- Help as a VE as often as possible.
- Help teach the Tech Prep Class too.

Logical Progression

Do you have sufficient Backup Power to run your station? – Laptop, Radio, and TNC.

We get some large Batteries periodically that are excellent. Use a Sealed Glass Mat so don't leak. Don't use regular lead acid car batteries in doors. They Vent Gases and will corrode things. Hook up an Inverter too.

Logical Progression

- Spend the Family's Vacation Savings to buy yourself a new or used HF Radio Rig.
- Lots of used Kenwood HF Radios in the \$300-\$1000 depending on how old of a Radio you can tolerate.
- Find an HF Elmer. Learn to use it.
- Then Be an **Elmer** to others.

Logical Progression

- Break down and buy a nice Dual Band Mobile Radio . Install in Car or Home.

A VHF/UHF Dual Band Mobile Radio will give you 50Watts of Power out instead of an HT's 5 watts.

Logical Progression

Other things along the way---

Join The ARRL <\$40/year

Join ARES and take advantage of their Training Opportunities.

Help out with Event Communications.

Buildup a good 72-Hour Kit, Go Kit, & Family Plan— Always be ready to Deploy if called.

Logical Progression

- Support your Stake ECS by Participating in training.
- Actively participate in Region-wide Semi-Annual Deployment Exercises.
- With your Ward/Stake Council Review and Update your Unit's EmComm Plan.
- Take a radio wherever you go.
- Get a Weather Radio or buy iMap app.

Logical Progression

- Attend Field Day Activities
- Join a Club– CARS, Brush Prairie, CTR, ...
- Blah, Blah, Blah.

It goes on and on.

Being an ECS is not a place, it is a journey.

Logical Progression

- In a very short time you can progress from a “Zero” to a “Hero” if you are willing to take the time and make the effort to truly Magnify Your Calling.
- As you prepare yourself and others in your Unit, you are about The Lord’s Work.

Summary

- Each Ward & Stake in the Region is best served if its ECS can do the following:

VHF/UHF Voice

VHF/UHF Packet

VHF/UHF WinLink

And all of the above via HF.

Logical Progression

- You have the Right to seek & Receive Inspiration for your Calling.

Don't hesitate to do it.

Do It!

President Kimball had a little placard on his desk to remind him each day about just Doing It.

It Read:

DO IT.

DO IT RIGHT.

DO IT RIGHT NOW!!!

- That's All

Learn your Duty and Do It.