Note: We will be recording all Bootcamp Sessions. Anyone not wishing to be recorded should mute their video or disconnect.



HOW TO LEARN CW

Nashua Area Radio Society
Fall 2021

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Topics

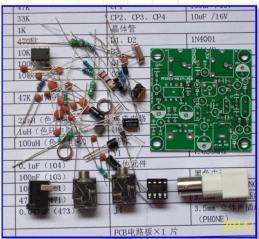


- Why Learn CW?
- How can you Go About Learning CW?
- Gear for Learning CW
- Dos and Don'ts when learning CW
- CWOps A great online class

Why Learn CW?



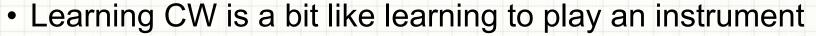




- Work more DX
 - Many DX stations operate mostly or exclusively using CW
- Make your signals go farther
 - Stations with 100w and a wire antenna will reach out further
 - Great for low-power QRP operation
- Lower power requirements and simplicity favor those who want to build their own transceivers
- Battery powered CW Transceivers are very effective tools for operating portable
- Participate in Field Day and CW Contests

How to Go About Learning CW?

- Learning CW is like learning a new language
 - You need to invest time to learn



- you'll do best if you learn to play as you learn to listen
 - You'll need a set of paddles, a Keyer, and practice oscillator
- Learning CW is about learning the sounds of letters and words – throw away your table of Dots and Dashes!
 - "Sound-alike" shortcuts will also severely limit your speed
- A computer with Internet access opens the door to some excellent learning and practice tools
- Get on the air and make slow speed CW contacts as soon as you can – near the top of the CW sub-bands



Gear for Learning CW

A Practice Keyer/Decoder like the K1EL K44 can help you practice timing





- Choose a "repeatable" set
- Plan to spend about \$150 \$200 for your first paddles



CW Keyer (or use your transceiver)

- Built-in small speaker for practice
- External oscillator is required to drive headphone/powered speaker



Headphones & Powered Speaker

- Practice oscillator will be needed for use with a Keyer
- Inexpensive units are fine
- Also needed for online CW courses



Learning CW

Some Do's and Don'ts



- Do spend 60 mins a day on practice
 - Plan to practice 6 8 weeks to get to about 10-12 WPM
 - Break your practice time into 15 30 min. sessions (2 3 per day)
 - Protect your practice times and stick with it!
- Don't learn using "dots" and "dashes" or use "sound-alike" systems
 - These approaches will severely limit your ability to build speed beyond
 10 wpm or so
 - Avoid counting dots and dashes
 - Focus on developing <u>Instant Character Recognition</u>
- Do use the Farnsworth Method (15 20 wpm Character Speed/5 wpm Farnsworth Speed)
- **Do** practice at speeds 3 5 wpm faster that your 100% recognition speed
- Do learn simple words and phases as soon as you can
 - Start word practice as soon as you learn a handful of letters
 - CQ, de, ur, 5NN, 599, tu, 73, SK, your callsign, your name, common words like "is", "the", "and", "ant", "rig", "pwr", "qth", "hw", ...
 - Begin learning numbers and common punctuation (ex. "/", "?", ".") early
- Do send using a set of paddles and a Keyer from the beginning

Learning CW

Some Do's and Don'ts continued



- Do use your computer and the Internet as practice tools
- Do practice and learn proper character, word and sentence spacing
 - What you don't send is just as important is what you do send...
- Do record your sending practice listen and note areas where you
 have trouble sending to help you focus on what to practice
 - Make a list of your "problem letters" and focus your practice there
- **Do** practice hearing callsigns once you know the alphabet & numbers
- Do learn the structure of a QSO & practice QSOs as soon as you can
- Do get on the air & make slow-speed contacts as soon as you can
 - · Learn the basics of making contacts and have some fun!
- Don't get stuck in a single practice format change it up
- Do sign up for an online CW class CW Academy is a great choice
- Don't rely on computer decoders to get started on the air
 - Use you ears and brain instead and develop your skills via practice

Consider an Online CW Class

We recommend CW Academy



- cwops.org/cw-academy/
- Regular practice coupled with expert coaches and online group practice
- Built upon effective online learning techniques
 - Many good practice tools and training scripts
 - Helps you avoid developing habits which will limit you
- Makes use online tools such as:
 - CWOps Morse Code Trainer
 - Word List Trainer
 - QSO Trainer
- Morse Runner is a good tool for practicing callsigns and simple QSOs



Questions?

To Learn More:

Check out the *CWOps* website: https://cwops.org/

Sign up for *CW Academy*: https://cwops.org/cw-academy/

