

Technician Amateur Radio License Class

Saturdays, March 19 to April 30, 2022

1:00 PM to 4:00 PM

via Zoom

David Bern, W2LNX and friends

instructors@marcclub.org


Zoom policy

- waiting room
- mikes are muted
- will record sessions for students in class
- will pause to take questions
 - use Chat box to ask a question – goes to host
 - use Raise Hand under Reactions
 - use space bar as push-to-talk (PTT) button

course syllabus and schedule

 [course syllabus and schedule](#)

<https://www.marcclub.org/mweb/education/Technician/syllabus.html>

 means “show”

agenda

The Technician license test

Lesson 1 – [Marc, N4DR](#):

- module 18 – Safety and Amateur Radio

break and demonstration – David, W2LNX

Lesson 2 – Marc, N4DR:

- module 13 – Communicating with Other Hams – Part 1

break and demonstration – David, W2LNX

Lesson 3 – Marc, N4DR:

- module 14 – Communicating with Other Hams – Part 2


the Technician license test

- test is 35 questions from [published question pool](#)
 - 10 subelements – 10 topics – FCC
 - 2 to 6 question groups in each subelements
 - 10 to 15 variations of each question group
 - ☞ "SUBELEMENT" in [question pool](#)
 - 10 to 15 variations of each question group
 - passing grade is 26/35 correct – 74%
 - updated every four years by [NCVEC](#) with FCC
 - [new question pool](#) on **July 1, 2022**

the Technician license test

- obtain an [FCC Registration Number \(FRN\)](#) – [instructions](#)
- fill out a blank form [NCVEC QUICK-FORM 605](#) with your FRN
 - save as a PDF file without your signature
 - recognized by all Volunteer Examiner Coordinators
 - [sample NCVEC Form 605](#) for new license
- use [ARRL Exam Review for Ham Radio™](#)
 - review test questions for previous HRLM chapters
 - take Technician license practice tests

HRLM [module 18 - Safety and Amateur Radio](#)

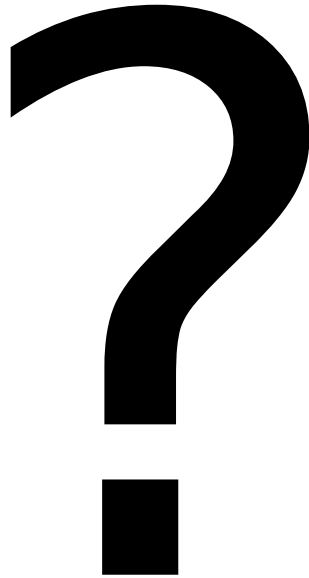
 boil a cup of water in a [microwave oven](#) for several minutes

- 2450 MHz
- RF exposure evaluation are now required for **all** stations
 - 50 watt exemption eliminated
 - easy with [ARRL RF Exposure Calculator](#)
- note SSB speech processing – compression



Use low power with an indoor VHF antenna

questions



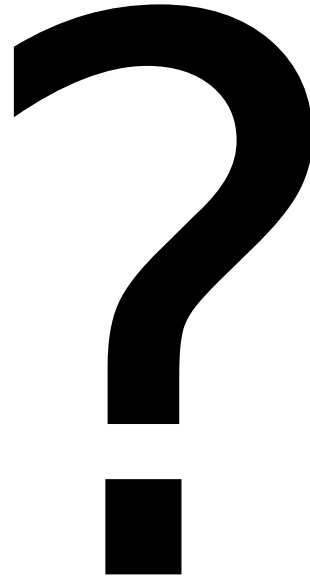
break and demonstration

☞ demonstrate narrow-band data communications

communicating with Other Hams – Part 1

- ☞ [HRLM module 13 – Communicating with Other Hams – Part 1](#)
- [Montgomery Amateur Radio Club \(MARC\) repeater system](#)
- [FCC Technician Band Chart](#) – regulation
- [US Amateur Radio Bands](#) – regulation
 - [ARRL band plan](#) – agreement
- [ITU Phonetic Alphabet](#)

questions



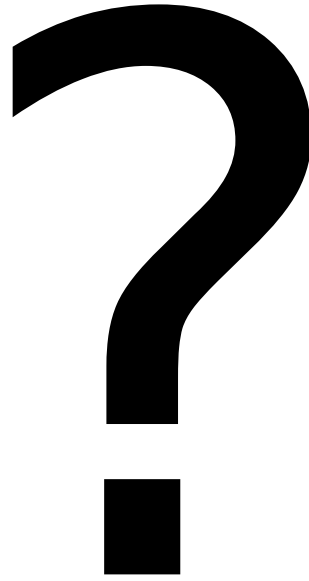
communicating with Other Hams – Part 2

- 👉 HRLM [module 14 – Communicating with Other Hams – Part 2](#)
 - [Montgomery County Auxiliary Communications Service](#)
 - [Radio Amateur Satellite Corporation \(AMSAT-NA\)](#)

homework

- read chapters in HRLM for session 4 for modules 18, 13 and 14
- use [ARRL Exam Review for Ham Radio™](#)
 - review test questions for these and previous HRLM chapters
 - take Technician license practice tests

questions



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