

# **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@marclub.org](mailto:instructors@marclub.org)

# introductions

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- David Bern, W2LNX – your Zoom host
- Aleks Rohde, W3JAG – president of [Montgomery Amateur Radio Club](#), Rockville, Maryland
- **Richard Hayman, WN3R** -- your instructor

# Zoom policy

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- 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

# agenda

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## Lesson 1 – [Richard, WN3R](#):

- module 1 – Welcome to Amateur Radio

break and demonstration – David, W2LNX and Richard, W2NR

## Lesson 2 – Richard, WN3R:

- module 2 – Radio Waves and Signals

break and demonstration – David, W2LNX and Richard, W2NR

## Lesson 2 – Richard, WN3R:

- module 3 – Modulation & Bandwidth

demonstration – David, W2LNX and Richard, W2NR

## course objectives

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- prepare you for the Technician Class license test
- prepare you for [public service and community service](#)
- foster self study and group learning – “a license to learn”
- foster community – join the ham radio fraternity and sorority
- learn some radio science
- learn some electronics
- encourage building and experimentation
- have fun

# Technician Class license test

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Purpose of the Technician Class license test:

- to test you on concepts and procedures on the **safe** and **legal** operation of amateur radio equipment

# course syllabus and schedule

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 [course syllabus and schedule](#)

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

 means "show"

This class is a collaboration:

- we teach and guide you to prepare for Technician license test
- you study and practice with the actual test questions

Costs:

- this class is free – [Montgomery Amateur Radio Club](#)
- Technician Class license test is free – [MARC VE](#) team of [Laurel VEC](#)
- your ham radio license is \$35 – [Federal Communications Commission](#)
- your time and energy is valuable

# Technician Class license test

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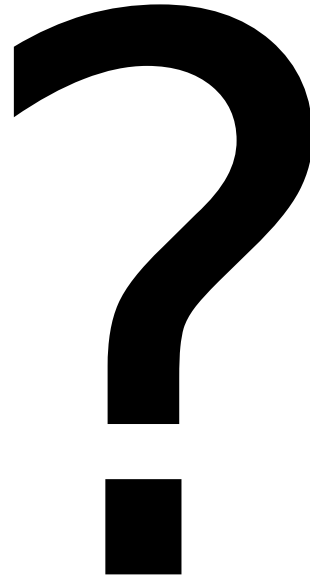
# module 1 - Welcome to Amateur Radio

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 HRLM [module 1 - Welcome to Amateur Radio](#)

# Questions

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[instructors@marclub.org](mailto:instructors@marclub.org)

# break and demonstration

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 “Richard, mute your Zoom mike”

 demonstrate 2 meter FM simplex

# module 2 - Radio Waves and Signals

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 HRLM [module 2 - Radio Waves and Signals](#)

# questions



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[instructors@marcclub.org](mailto:instructors@marcclub.org)

# break and demonstration

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-  “Richard, mute your Zoom mike”
-  demonstrate 2 meter FM repeater

# module 3 - Modulation & Bandwidth

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 HRLM [module 3 - Modulation & Bandwidth](#)

# Technician Class license test

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# Technician Class license test

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The Element 2 [Technician Class question pool](#) is a public document:

- 26 correct out of 35 questions to pass test
- 35 sets of 10 to 15 variations of the same question
- only one grade: **pass** or you took a practice test
- can take a test as often as you wish
- will discuss registering for a test session later...

Free volunteer examiner test session in Rockville, Maryland:

- Sunday, May 1, 2022 from 8:30 AM to 11:00 AM
- Sunday, May 8, 2022 from 8:30 AM to 11:00 AM (rain date)

## preparing for the Technician test

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- [The ARRL Ham Radio License Manual](#), fourth Edition
  - book is three books in one:
    - training – preparation for the Technician test
    - education – learn something about radio science
    - operator's handbook – fun catalog of ham radio activities
  - appendix – Element 2 Technician Class Question Pool
- [Technician Class License Manual Supplement](#) provides
  - an [errata and corrections](#) page
  - a [Tech Prep Resource Library](#) page

## preparing for the Technician test

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- free [ARRL Exam Review for Ham Radio™](#) can
  - practice by question pool sub-element
  - practice with sample 35 question tests
  - generate sample tests with answer key to print

# demonstration

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☞ demonstrate talking all over the world using a handie-talkie

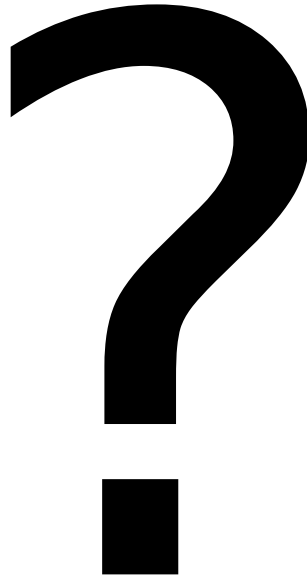
# homework

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- read chapters for session 1 in HRLM for modules 1, 2 and 3
- read chapters for session 2 in HRLM for modules 4 through 7
- practice test questions [ARRL Exam Review for Ham Radio™](#)

# Questions

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