

IEEE Chapter Club of Montgomery College
Montgomery Amateur Radio Club

Technician Class License Course

March 28, 2015 to May 2, 2015

Science Center, room SC416

9 AM to 12 Noon

David Bern, W2LNX and friends

education@marcclub.org

course Web site

<http://www.marcclub.org/mweb/education/Technician/index.html>

agenda

Introductions – David, W2LNX:

- course objectives
- course syllabus and schedule

Lesson 1 – Ben, K3RYR:

- module 1 – Welcome to Amateur Radio
- module 2 – Radio Waves and Signals

Break and demonstration – David, W2LNX

Lesson 2 – Ben, K3RYR:

- module 3 – Modulation & Bandwidth
- preparing for the Technician Class license test

introductions

- Prof. Uche Abanulo, KC3ARX – professor of [electrical engineering at Montgomery College, Rockville](#)
- David Bern, W2LNX – [MARC](#) education committee
- your instructors:
 - March 28 – Ben Acton, K3RYR
 - April 4 – John O'Brien, K3LO
 - April 11 – Tom Horne, W3TDH
 - April 18 – Al Taylor, KN3U
 - April 25 – Glenn Simons, N3COB
 - May 2 – Joe Signorelli, AB3CR

course objectives

- prepare you for the Technician Class license test
- learn some radio science
- learn some electronics
- foster group learning and self study – “a license to learn”
- foster [public service](#) and community service
- foster community – belonging to a fraternal/sororal organization
- encourage technical experimentation
- have fun

course syllabus and schedule

 [course syllabus and schedule](#)

This course is a collaboration:

- we teach and demonstrate
- you study and practice test questions

Costs:

- this course is free – [Montgomery Amateur Radio Club](#)
- Technician Class license test is free – [MARC VE](#) team of [Laurel VEC](#)
- your ham radio callsign is free – FCC

 means “show”

Technician Class license test

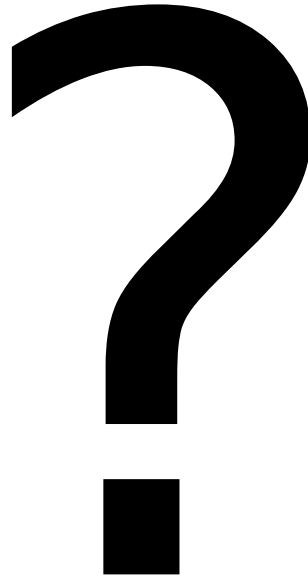
Purpose of the Technician Class license test:

- to test you on **concepts** and **procedures** on how to operate amateur radio equipment **safely** and **legally**

module 1 – Welcome to Amateur Radio

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

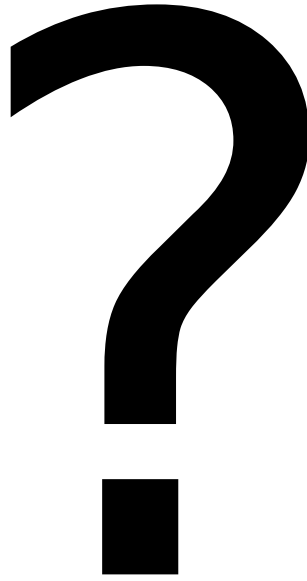
Questions



module 2 – Radio Waves and Signals

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

Questions



Break and demonstration

 demonstrate 2 meter FM repeaters

module 3 – Modulation & Bandwidth

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

Technician Class license test

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 just took a practice test
- can take test as often as you wish
- Element 2 Technician Class Question Pool

 [questions with answers](#)

 [questions without answers](#)

 [blank answer sheet](#)

 [answer sheet](#)

preparing for the Technician test

- [The ARRL Ham Radio License Manual](#), third Edition
 - book is three books in one:
 - training
 - education
 - operator's handbook
 - appendix – Element 2 Technician Class Question Pool
 - Web [support page](#) provides
 - a [study guide](#) and
 - an [errata and corrections](#) page
 - a [Tech Prep resource library](#) page
 - a [chapter by chapter summary](#)

preparing for the Technician test

- 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
- HRLM study guide
 - ☞ [questions cross-referenced by page](#)
 - ☞ [pages cross-referenced by question](#)

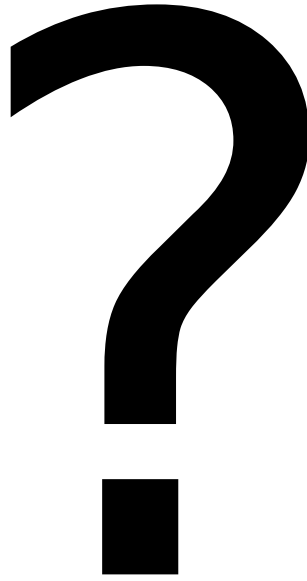
preparing for the Technician test

- you need to obtain an FCC Registration Number (FRN)
 - creates an account with the FCC
 - obscures your SSN from VEs
 - ☞ Web page: [FCC Registration](#)
- fill out a form [NCVEC QUICK-FORM 605](#)
 - [sample NCVEC form 605](#)
 - ☞ email your 605 form to
education@marcclub.org

Homework

- Homework: obtain your FRN and email 605 form to education@marcclub.org
- read pages for session 1 in HRLM for modules 1, 2 and 3
- read pages for session 2 in HRLM for modules 4 through 7
- practice test questions [ARRL Exam Review for Ham Radio™](#)

Questions



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