(printable copy)

Course Syllabus

Course:

Online Technician Class License Course

Dates and time:

Saturday, March 19, 2022	1:00 PM to 4:00 PM
Saturday, March 26, 2022	1:00 PM to 4:00 PM
Saturday, April 2, 2022	1:00 PM to 4:00 PM
Saturday, April 9, 2022	1:00 PM to 4:00 PM
Saturday, April 16, 2022	1:00 PM to 4:00 PM
Saturday, April 23, 2022	1:00 PM to 4:00 PM
Saturday, April 30, 2022	1:00 PM to 4:00 PM

Exam information:

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

Course objectives:

- 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”
- learn to operate ham radio equipment
- learn some radio science
- learn some electronics

- encourage technical experimentation
- join the ham radio community
- have fun

Purpose of the Technician Class license test:

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

Instructors:

- Saturday, March 19, 2022 – Richard Hayman, WN3R
- Saturday, March 26, 2022 – Joe Massi, AC3JM
- Saturday, April 2, 2022 – Al Taylor, KN3U
- Saturday, April 9, 2022 – Marc Pressman, N4DR and Tom Horne, W3TDH
- Saturday, April 16, 2022 – Glenn Simons, N3COB
- Saturday, April 23, 2022 – Vic Nardo, WB2U
- Saturday, April 30, 2022 – David Bern, W2LNX
- host – David Bern, W2LNX

Course email address:

education@marcclub.org

Study resources:

- The ARRL Ham Radio License Manual (HRLM), 4th Edition, ISBN: 978-1-62595-082-6
- ARRL HRLM Exam Review software

- Element 2 Technician Class Question Pool
- study resources

Sponsor:

- The Montgomery Amateur Radio Club (MARC)

Course Schedule

Session 1: Saturday, March 19, 2022, 1:00 PM to 4:00 PM

- agenda
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- module 1 – Welcome to Amateur Radio: HRLM chapter 1
- module 2 – Radio Waves and Signals: HRLM chapter 2
- module 3 – Modulation & Bandwidth: HRLM chapter 2
- demonstration – operating a hand held radio over an FM repeater

Session 2: Saturday, March 26, 2022, 1:00 PM to 4:00 PM

- agenda
- module 4 – Electricity: HRLM chapter 3
- module 5 – Ohm’s Law, Power and the Metric System: HRLM chapter 3
- module 6 – Electronic Components: HRLM chapter 3
- demonstration – resonance of a tuned circuit

Session 3: Saturday, April 2, 2022, 1:00 PM to 4:00 PM

- agenda
- module 7 – Types of Radio Circuits: HRLM chapter 3

- module 11 – Basic Amateur Radio Station Equipment: HRLM chapter 5
- module 12 – Power Supplies and RF Interference: HRLM chapter 5
- demonstration – sending email to the Internet using Winlink on VHF

Session 4: Saturday, April 9, 2022, 1:00 PM to 4:00 PM

- agenda
- module 18 – Safety and Amateur Radio: HRLM chapter 9
- module 13 – Communicating with Other Hams – Part 1: HRLM chapter 6
- module 14 – Communicating with Other Hams – Part 2: HRLM chapter 6
- demonstration – narrow-band data communications

Session 5: Saturday, April 16, 2022, 1:00 PM to 4:00 PM

- agenda
- module 8 – Propagation: HRLM chapter 4
- module 9 – Antennas and Feed Lines: HRLM chapter 4
- module 10 – Practical Antenna Systems: HRLM chapter 4
- demonstration – Automatic Packet Reporting System (APRS)

Session 6: Saturday, April 23, 2022, 1:00 PM to 4:00 PM

- agenda
- module 15 – License Regulations and License Privileges: HRLM chapter 7
    - CFR – Part 97 – Amateur Radio Service
- module 16 – Call Signs, Control Operators, Station Identification and Third-Party Communications: HRLM chapter 7 and 8

- module 17 – Interference, Remote & Automatic Operation, Prohibited Transmissions: HRLM chapter 8

Session 7: Saturday, April 30, 2022, 1:00 PM to 4:00 PM

- agenda
- review and questions answered
- practice Technician tests

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

- study resources

Public Service Opportunities:

- MARC public service calendar

updated: May 4, 2022 06:22 AM