

TWO-DAY TECHNICIAN LEVEL AMATEUR RADIO COURSE - - March 18 & 25, 2018

Sponsored by: Alcona County Amateur Radio Group

Location: Alcona County EMS/EOC Building; 2600 East M-72 (on the south side of M-72 just east of F-41)

Registration: contact Instructor

Course Cost: No cost for course; \$15 Standard FCC exam fee for All Non-Alcona School 4-H attendees applies

Instructor: Stan Darmofal, W8SZ; e-mail: w8sz@arrl.net; Phone: 989-724-5550

Alcona County Emergency Coordinator and Radio Officer;

ARRL (American Radio Relay League) Instructor and Certified FCC ARRL-VEC Examiner

4-H Program Manager: Les Thomas; e-mail: thoma322@msu.edu; Phone: 724-6478

Amateur Radio Support: Members of the Alcona County Amateur Radio Group & VE Team

Textbook: *Ham Radio License Manual*, 3rd Edition **ONLY** by the ARRL; Available from the instructor at the discounted rate of \$22.50

Refreshments: Plenty of FREE refreshments provided for Class participants

Some Helpful Hints:

- Read the material **in the order** as shown in the **Syllabus** below. Be certain to go to the referenced test questions in the chapter you are reading when you see: "Before you go on, study test questions...."
- If you have any problem understanding a question, review the specific material referenced below the question's answer
- If you don't understand the information after the review, make a note of your question(s) and have the instructor clarify the information for you in class - - don't spend a lot of time re-reading - - chances are others have the same question and the instructor can get to the appropriate information quickly!
- Don't become discouraged if you don't understand the technical and mathematical material immediately - - the in-class videos, hands-on demonstrations and fun projects will go a long way to help you learn!
- Don't buy any equipment until you have a chance to see the various Ham gear in action in the class

Here are a few sites that will provide you information on Amateur Radio. The ARRL site is by far the best with many links to other sites:

<http://www.arrl.org/> - - The American Radio Relay League Site

<http://www.alconaradio.org/> - - The Alcona County Amateur Radio Group Site (See "Links" Page)

<http://www.heavens-above.com/> - - Amateur Radio Satellites, ISS, Astronomy and more!

<http://www.findu.com/> - - primarily an Amateur Radio database archiving weather, position, telemetry, and message data using the Automatic Position Reporting System (APRS)

<http://www.qrz.com/> - - A Ham Radio "Super Site"

<http://www.echolink.org/> - - EchoLink allows licensed amateurs to communicate over the Internet

Here is an Internet site for the On-line FCC Amateur Radio Practice Tests (It randomly creates tests just like the exam you will take) - - be certain to read the "Help Page" information link in the first paragraph:

<http://www.aa9pw.com/radio/index.shtml>

SEE PAGE 2 for SYLLABUS

Date & Time:**PRIOR to Mar 15th:** **Read:** Chapters 1 through 5 (**MUST READ AND REVIEW PRIOR TO CLASS**)**Review:** All Chapter 11 questions referenced in the reading material above**Sunday, Mar 15th:**

Noon – 12:30 pm

Class Overview**Hands-On Demo:** 2 Meter Repeater; Repeater Phone Patch**Video:** “*Discovering Amateur Radio - - The Power of Amateur Radio!*”**Review:** Chapter 1: Welcome to Amateur Radio (Chapter 1 material is NOT on exam)

12:30 pm – 2 pm

Review: Chapter 2: Radio and Signals Fundamentals**Review:** Chapter 3: Electricity, Components and Circuits**Video:** “*Basic Electronics & Amateur Radio*”**Hands-On Demo:** Using Electronic Components & Measuring Devices**Test:** Chapters 2 & 3; Sample of FCC Questions; **Review** answers

2 pm – 2:10 pm

Break

2:10 pm – 4 pm

Review: Chapter 4: Propagation, Antennas and Feed Lines**Hands-On Demo:** Building & Testing Antennas**Hands-On Demo:** Using a SWR Meter, Antenna Analyzer

4 pm – 5 pm

Review: Chapter 5: Amateur Radio Equipment**Video:** “*International Space Station Contact*”**Test:** Chapters 4 & 5; Sample of FCC Questions; **Review** answers**PRIOR to Mar 25th:** **Read:** Chapters 6 through 9 (**MUST READ AND REVIEW PRIOR TO CLASS**)**Review:** All Chapter 11 questions referenced in the reading material above**Sunday, Mar 25th:**

Noon – 2 pm

Video: “*Match-Up: Texting vs. Morse Code*”**Hands-On Demo:** Operating a HF Station**Hands-On Demo:** Operating VHF/UHF/Packet/Digital Modes**Review:** Chapter 6: Communicating with Other Hams**Review:** Chapter 7: Licensing Regulations**Review:** Chapter 8: Operating Regulations**Test:** Chapters 6, 7 & 8; Sample of FCC Questions; **Review** answers

2 pm – 2:10 pm

Break

2:10 pm – 3 pm

Review: Chapter 9: Safety**Hands-On Demo:** Safety Practices, Limiting RF Exposure**Hints:** “*How to pass your Technician Level FCC Exam*”**Test:** Sample of Actual FCC Exams; **Review** Exam Answers

3 pm – 3:45 pm

Review: All Chapters - - “*Intense Review*”

3:45 pm – 4 pm

Break**Sunday, Mar 25th:****Starting at 4 pm****FCC Exams for all license levels; MUST PRE-REGISTER AT:****<http://alconaradio.org/testreg/test.aspx>**