

# Technician License Course

## Chapter 1

Lesson Plan Module 1 –  
Welcome to Amateur Radio



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AMATEUR RADIO*

# Introductions

- State your name and a little about yourself.
- Why are you taking this course?
- What do you know about ham radio?
- What expectations do you have for yourself and your instructors?

# Expectations

- Class will start and end on time.
- Instructor will be prepared for each topic.
- Students are expected to read assigned material before each class session and be prepared to learn.
- Ham radio is not a spectator sport. Active participation during class discussions is vital to success in obtaining a Technician class license – your “ticket.”



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# Course Overview

- Welcome to Amateur Radio
- Radio and Signal Fundamentals
- Electricity, Components, and Circuits
- Propagation, Antennas, and Feed Lines
- Amateur Radio Equipment
- Communicating with Other Hams
- Licensing Regulations
- Operating Regulations
- Safety



# Let's Get Started

- Our goal during this class is for each of you to achieve the Technician class Amateur Radio license!
  - The license will authorize you to operate an Amateur Radio (ham radio) transmitter.



# What Is Amateur Radio?

- Amateur (or ham) Radio is a personal radio service authorized by the Federal Communications Commission (FCC).
  - To encourage the advancement of the art and science of radio.
  - To promote the development of an emergency communication capability to assist communities when needed.
  - To develop a pool of trained radio operators.
  - To promote international good will by connecting private citizens in countries around the globe.
- Through ham radio, you will become an ambassador for your community and your country.



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# What Do Hams Do?

- Communicate
- Experiment
- Build
- Compete
- Serve their communities
- Engage in life-long learning

# What Makes Ham Radio Different?

- There are many unlicensed radio services available.
- Ham radio is very flexible:
  - Fewer restrictions
  - More frequencies (channels or bands)
  - More power (to improve range and quality)
  - More ways to communicate
  - It's *free* to operate your radio



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# With More Privileges Comes More Responsibility

- Because ham radios are much more capable and have the potential of interfering with other radio services.
- Because ham radios have unlimited reach, they easily reach around the globe and into space.
- FCC authorization is required to ensure the operator is qualified to operate the ham radio safely, legally, and effectively – that is why you are here.



# Steps to Obtaining Your Ticket

- Study the material in the *Ham Radio License Manual*. (Be sure you have the right edition!)
- Review the questions in the back of the book.
- Take interactive practice exams.
- Pass a proctored 35-question multiple choice test.
  - Questions pulled directly from the question pool.
  - Need to answer 26 questions correctly.
- No Morse code is required.



# So Let's Begin Your Ham Radio Journey

- We have touched briefly on what ham radio is. More detail will follow in the weeks to come.
- Reading assignment: Introduction and Chapter 1 – this covers materials already presented in the first hour.
- Chapter 2 – covers basic radio terms and concepts.



# Practice Questions



# Which agency regulates and enforces the rules for the Amateur Radio Service in the United States?

- A. FEMA
- B. The ITU
- C. The FCC
- D. Homeland Security

FCC Rule: [97.1] T1A02 HRLM (7-2)



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