

HAM RADIO TECHNICIAN LICENSE CLASS SYLLABUS

ARRL Ham Radio License Manual 6TH Edition

Introduction

Module 1. Welcome to Amateur Radio

- 1.1 What is Amateur Radio
- 1.2 The FCC and Licensing
- 1.3 Amateur Radio Activities
- 1.4 Getting Your Ham Radio License

Module 2. Radio and Signals Fundamentals

- 2.1 Radio Signals and Waves
- 2.2 Radio Equipment Basics

Module 3. Electricity, Components, and Circuits

- 3.1 Electricity
- 3.2 Components and Units
- 3.3 Radio Circuits

Module 4. Propagation, Antennas, and Feed Lines

- 4.1 Propagation
- 4.2 Antenna and Radio Wave Basics
- 4.3 Feed Lines and SWR
- 4.4 Practical Antenna Systems

Module 5. Amateur Radio Equipment

- 5.1 Modulation
- 5.2 Transmitters and Receivers
- 5.3 Digital Communications
- 5.4 Power Supplies and Batteries

Module 6. Communicating with other Hams

- 6.1 Band Plans
- 6.2 Making Contacts
- 6.3 Using Repeaters
- 6.4 Nets
- 6.5 Communications for Public Service
- 6.6 Satellite Operating

Module 7. Licensing Regulations

- 7.1 Licensing Terms
- 7.2 Bands and Privileges
- 7.3 International Rules
- 7.4 Call Signs

Module 8. Operating Regulations

- 8.1 Control Operators
- 8.2 Identification
- 8.3 Interference
- 8.4 Third Party Communications
- 8.5 Remote and Automatic Operation
- 8.6 Prohibited Transmissions

Module 9. Safety

- 9.1 Electrical Safety
- 9.2 Managing RF in Your Station
- 9.3 RF Interference (RFI)
- 9.4 RF Exposure
- 9.5 Mechanical Safety