**Technician Class License Course Syllabus**

***What is amateur (Ham) radio?***

Amateur radio, also known as ham radio, is a hobby enjoyed by hundreds of thousands of Americans and millions around the world. They enjoy communicating with one another via two-way radios and experimenting with antennas and electronic circuits.

All kinds of people are radio amateurs, also known as “hams.” Hams are young, old, men, women, boys and girls. Children, as young as seven years old, have earned amateur radio licenses. Many hams are active in their 80s and beyond. You never know who you run into on the amateur radio bands: young and old, teachers and students, engineers and scientists, doctors and nurses, mechanics and technicians, kings and entertainers. For example, did you know that most of the astronauts sent up to the international space station (ISS) in the last 5 to 10 years have been licensed amateur radio amateurs? They use the amateur radio station on board the ISS to communicate with school groups all over the world as they are flying over.

***How do you get into amateur radio?***

With just a little study, you can learn all you need to know to earn a Technician Class license, which is the license most popular with beginners. To earn a Technician Class license, you must take a test with 35 multiple–choice questions. This course is designed to help each student prepare to successfully pass this test. The test covers basic regulations, operating practices, and electrical and electronic theory. Knowing Morse code is no longer required to earn this license, or any class of amateur radio license. Technician Class licensees have all amateur radio privileges above 30 MHz, including the very popular two-meter band (144MHz). Technicians can also operate Morse code (CW) on portions of the 80m, 40m, 15m and 10m bands, and voice communications on portions of the 10m band.

There are two other classes of license: The General Class license and the Amateur Extra Class license. To earn a General Class license, you must pass another 35–question test; the Amateur Extra Class test has 50 questions. The tests are progressively more difficult. General Class licensees get phone (voice communication) and digital mode privileges on portions of the 160m, 80m, 60m, 40m, 20m, 17m, 15m, 12m and 10m bands. They can also operate CW and digital modes on the 30m band. Amateur Extra Class licensees have all amateur privileges.

**Course information**

**There are no prerequisites** for this **Technician Class License Course** and it is designed to help students prepare for the Amateur Radio Technician Class License exam. This course is offered at the Facility Name facility located at

**Street Address**

**City**

and meets from 7:00 to 9:00 pm each Thursday evening . . . See the class schedule on Page 6 for further meeting date information.

**Technician Class License Course Purpose**

The ***Purpose*** for this Technician Class License Course ***IS* to help the students prepare for the Technician Class license examination** by providing the following:

1. An authoritative text

2. In–class discussion led by a knowledgeable Discussion Leader from our MDARC Volunteer Instructional Team

3.In-class amateur radio experiences shared by members of our MDARC Volunteer Instructional Team

4. References to Amateur Radio Internet related websites

The ***Purpose*** for this Technician Class License Course ***IS NOT* to provide the students with the in-depth study and knowledge of the Electronic and Radio Theory that makes amateur radio possible.**

**Instructor information**

This technician class license course will be taught by the Mt. Diablo Amateur Radio Club (MDARC) Volunteer Instructional Team led by Name, Callsign and Name, Callsign. The in-class discussion leaders are experienced amateur radio operators, not professional Instructors. Each in-class discussion Leader is a volunteer. Class sessions will be led by various members of the instructional team. If you have any questions, **Name, Callsign**, can be contacted via email at: email address

**Members of the MDARC Instructional Team**

**In-class Instructional Team Members:**

* Name, Callsign, License Class
* Name, Callsign, License Class
* Name, Callsign, License Class
* Name, Callsign, License Class
* Name, Callsign, License Class
* Name, Callsign, License Class
* Name, Callsign, License Class
* Name, Callsign, License Class
* Name, Callsign, License Class

**Class Support Team Members:**

● Course Administrator: Name, Callsign, License Class

● Course Audio/Visual Support: Name, Callsign, License Class

● Hospitality Support: Name, Callsign, License Class

**Course Support Elmers:**

● All Instructional Team Members including:

* Name, Callsign, License Class
* Name, Callsign, License Class
* Name, Callsign, License Class
* Name, Callsign, License Class
* Name, Callsign, License Class

“**What is an Elmer**?” **The ARRL Ham Radio License Manual-Technician** defines a ham radio “Elmer” as a person who guides and tutors a new ham through the learning process, both before and after getting a license. It doesn’t refer to anyone in particular, just to the more experienced hams who lend a helping hand to newcomers. Just about everyone has an Elmer at one point and sometimes several. It’s one of ham radio’s highest compliments to be someone’s Elmer.

Simply stated an Elmer is anyone willing to help you learn something about amateur radio. In other words, practically every Ham you meet can, in some way, serve as an Elmer for you. In turn, once you’ve earned your Technician Class License, you can be an Elmer to another amateur radio operator. The people sitting at the back of the room are members of the MDARC Volunteer Instructional Team and are voluntarily attending the class sessions as Elmers to help you with amateur radio questions that you may have after reading the text assignment and participating in the discussion of the assigned reading. They are giving their time to help you prepare for the Technician Class License examination . . . Please take advantage of their amateur radio experience.

**The Text**

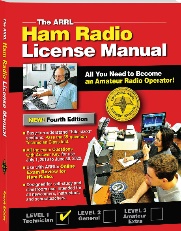
The text for this course is the **ARRL Ham Radio License Manual - Technician**, Fourth edition. ISBN: 978-1-62595-087-1 or ISBN Spiral: 978-1-62595-082-6. There is also a Kindle edition available.

**Each student is required to have a copy of the text.** The text contains the following:

● Nine amateur radio chapters covering the topic of material. *(Page 1 – 1 through Page 9 - 14)*

● Amateur Radio Glossary of Terms. *(Page 10 - 1 through Page 10 - 28)*

● Amateur Radio Technician Class License Question Pool. *(Page 11 - 1 through Page 11 - 73)*.

● The Question Pool for the Technician Class License is composed of **426** questions and is valid for the period of **July 1, 2018** through **June 30, 2022**.

● Supplement: Choosing a Ham Radio (*Pages 1 through 24)*

**Course Policies**

1.Please **set cell phones** and other similar devices **to the silent mode** while in class as a courtesy to the other students in the class.

2. Handouts and homework for the following class session will be provided via email to each student. This will be done in sufficient time to use this material during the normal chapter study and to supplement the information found in each chapter.

1. This handout materials policy is subject to change which will be communicated to students in the event of a policy change.

3. To successfully **earn** your technician class license amateur radio license, students should be prepared to **STUDY** the text chapter assignments and the chapter’s pool of questions and bring the completed homework assignment to class.

A. Recent technician class students have told us that on average, they ***studied*** about **2 ½** **hours each week**.

B. Student should have ***studied* the chapter assignments *before* the in-class discussion**.

● Students are encouraged to ask questions during each class session to clarify issues of concern from their technician study, after the issue has been discussed in class.

○ General interest questions should be asked in class.

○ Student specific questions should be asked before class, during the class break, and/or following the end of the class session.

● “Elmers” will be available to assist students with their questions.

● “Elmers” are in attendance to help each of you, as students, so please take advantage of their amateur radio expertise and experience.

C. Students should ***bring their textbooks*** to **each class session**.

D. Students should ***plan to take notes*** in class from the chapter discussions presented by the in-class discussion leaders.

E. Students should ***bring the course syllabus to each class session*** and **use the Course Syllabus** as the informational source for Course Purpose, Class session assignments and contact information.

**Course Calendar/Schedule**

**Session 1 *(Date)***

Welcome and Introduction to the Technician License Course

Chapter 1 “**Welcome to Amateur Radio**”

**Session 2 *(Date****)*

Chapter 7 “**License Regulations**”

Chapter 8 “**Operating Regulations**”

**Session 3 *(Date)***

Chapter 6 “**Communicating with Other Hams**”

**Session 4 (*Date)***

Chapter 3 “**Electricity, Components, and Circuits”**

**Session 5 (*Date)***

Chapter 2 “**Radio and Signal Fundamentals**”

**Session 6 (*Date)***

Chapter 4 “**Propagation, Antennas, and Feed Lines**”

**Session 7 (*Date)***

Chapter 5 “**Amateur Radio Equipment**”

**Session 8 (*Date*)**

Chapter 9 “**Safety**”

**License Testing (*Date*)**

**Getting on the Air *(GOTA)***

Session 1 (***Date****): Amateur Radio Communications Explained*

Session 2 ***Date*** *):* *Amateur Radio Communications Practiced*

**Parking:**

**The Facility name has asked us to park as indicated below.**

**Picture here**

**After Each Class Session**

● Please help us by following the instruction of the **ELMERS** for setting the tables and chairs at each table as shown at the close of each class Session.