

Technician Class Course: Homework 1

(Updated: 12/26/2013)

Welcome to your class homework. Your upcoming class is absolutely NOT a cram session. Rather your course will take your textbook questions and answers and relate them to the real world of ham radio operating.

This pre-study material comes straight out of the Gordon West *Technician Class* book for the 2010 through 2014 Element 2 question pool. The fill-in-the-blank questions in the homework follow the exact order of the book. Page numbers are given to quickly get you into the right section!

The homework is fill-in-the blank. Your actual Element 2 written examination will be a multiple choice exam – all the easier. Taking sample exams on the Internet is fun, educational, and double check that you will do well on the upcoming written examination, which we will do later.

I do recommend you pace yourself to read about 15 pages per sitting.

Directions:

1. **Before the first class and before reading the book**, watch the following videos on Youtube:
(click on the links in the PDF)

http://www.youtube.com/watch?v=5Z9136_Nhh4 (6:40)

Brief summary: _____

<http://www.youtube.com/watch?v=ivUMIADFSDw> (32:14)

Brief summary: _____

<http://www.youtube.com/watch?v=rMcNdAKoN-U> (2:40)

Brief summary: _____

2. Read the book pages specified and fill in the answers to the questions below. They should be in order as you are reading. If you are unable to find an answer, do not fret! We will get you squared away in class.
3. Starting on page 31, **highlight** the correct answer to each FCC test question and Gordon's keywords (in blue) in the explanation. **Do not read the incorrect answers!**

Be sure to bring your completed homework to the first class session.

If you have a handheld radio or scanner, please bring it to each class session. (not required!)

GETTING INTO HAM RADIO (Pages 1-4)

1. How many hams worldwide? _____
2. How many hams in the United States? _____
3. How many questions on your upcoming Technician Class exam? _____
4. How many bands will your new handheld have? _____
5. What was the world's first and largest antenna tower? _____

6. You will soon talk to astronauts on the _____
7. Ham radio is both a hobby as well as a _____
8. Join your local ham radio club and look for the club's _____

TECHNICIAN CLASS PRIVILEGES (Pages 5-18)

1. Frequency range for VHF? _____
2. Frequency range for UHF? _____
3. Frequencies above UHF are considered _____ waves.
4. Frequency range for sounds we hear? _____
5. 6 meter Technician Class privileges? _____ MHz to _____ MHz
6. 2 meter Technician Class privileges _____ MHz to _____ MHz
7. 1-1/4 meter Technician Class privileges _____ MHz to _____ MHz
8. 70 cm Technician Class privileges _____ MHz to _____ MHz
9. What are the most popular "dual band" meter bands? _____

A LITTLE HAM HISTORY (Pages 19-24)

1. Radio has been around for _____ years?
2. First ham license issued around _____?
3. In 1979, this requirement was eliminated for operation above 30 MHz: _____ test
4. The FCC restructured our USA ham license on April 15, _____
5. May foreigner obtain a US ham license? _____
6. Highest level of US ham license? _____
7. What Element number do you study for Technician Class? _____
8. Can you jump over the entry level Tech test for the General test? _____
9. Does the Technician entry level require a Morse Code test? _____

GETTING READY FOR THE EXAM (Pages 25-30)

1. Total number of questions on your upcoming multiple choice Technician Class exam? _____
2. Passing score? _____%
3. How many questions could you miss and still pass? _____
4. How many members comprise an examination team? _____

5. You receive this paper when you pass: _____
6. How many total Technician class questions in the pool? _____
7. How many questions on radio and electronics fundamentals? _____
8. How many exam questions on electrical and RF safety? _____
9. Technician Class sub-element T2 covers this topic? _____
10. Gordo's phone number if you need help or inspiration? _____

ABOUT HAM RADIO (Pages 31-34)

1. Who enforces the ham radio rules? _____
2. Ham radio FCC rule Part number? _____
3. One fundamental purpose for ham radio? _____
4. Minimum age to become a ham? _____
5. Three grades of ham radio licenses? _____
6. What does VE mean? _____
7. Licenses are good for _____ years?
8. How long is a CSCE valid for license upgrade purposes? _____
9. Try this web page out for ham radio info and fun: www. _____

CALL SIGNS (Page 35-43)

1. New call signs are issued in _____ order.
2. US call signs must begin with which four letters? _____
3. What number would be in a call sign issued to a ham in Florida? _____
4. Identify your station every _____ minutes and when you sign off.
5. What system allows a call sign made up of your initials? _____
6. Call sign lookup internet? www. _____ .com