

## Course Introduction

By Jim Grover, N8PZL  
Cuyahoga Falls Amateur Radio Club

This is the Course Introduction for the Cuyahoga Falls Amateur Radio's General Class Licensing Course.

## Course Instructors

- Frank Tompkins, W8EZT
- Pat Morrow, N8OQP
- Paul Rawlings, KB8RWZ
- Bob McFadden, K8RJM
- Melissa Baker, KE8CSQ
- Bill Mayhew, N8WED
- Jim Grover, Course Organizer, N8PZL

Here is a list of course instructors and their calls. Most of the instructors hold and Amateur Extra class license.

## Advantages of General Class License

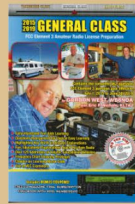
- “Real” HF Privileges – see ICOM Spectrum Chart
- Retain Technician Spectrum
- Can be Volunteer Examiner for Technician (element 2) exams
- Expanded knowledge of radio technology



With a general class license you get a significant increase in HF privileges over those with a technician license. You retain all the privileges that you had with your technician class license. You can become a Volunteer Examiner and oversee candidates that are taking their technician class exam. The general class license requires an expanded knowledge of radio technology.

## Element 3

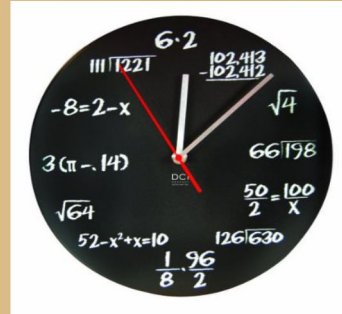
- Improved and modernized exam
- 26 out of 35 or 74% to pass exam (much like technician).
- Must have FRN and copy of license to take the exam.

The image shows a sample of the ARRL Written Element Examination Answer Sheet. It is a form with various sections for candidate information, including name, address, and license number. It also contains a grid for marking answers to 35 multiple-choice questions, each with four options (A, B, C, D). The form is titled 'ARRL WRITTEN ELEMENT EXAMINATION ANSWER SHEET'.

The general class exam or element 3 is improved and modernized every 4 years. Next change due on July 1, 2019. As with the technician exam a score of 26 or more correct answers out of 35 is required to pass. This course assumes you already have a technician class license which you should bring to the exam session. Your license contains your FRN.

## Class Sessions

- 1:15 PM to 4:45 PM (3.5 Hours)
- 18 February – 2AB
- 25 February – 2AB
- 4 March – 2AB
- 11 March – 2AB
- 18 March – 2AB
- 25 March – 3



This offering meets in the meeting rooms of the main branch of the Akron-Summit County Library. The library is open on these dates from 1:00 PM to 5:00 PM. The class runs from 1:15 PM to 4:45 PM. Note all the classes meet in room 2AB (the center room) except for the test session which meets in room 3 (the end room).

## Rules & Resources

- No smoking in library
- Restrooms across the hall
- Refreshment at each session



It is a library rule that prohibits smoking inside the library, including the restrooms. Both the female and male restrooms are right across the hall. As part of your course fee we will provide refreshments.

## Course Webpage

- [j-grover.com/jim](http://j-grover.com/jim)
- [cfarc.org](http://cfarc.org)
- Activities and Resources
- Classes
- [j-grover.com/jim](http://j-grover.com/jim)

### CFARC - General Class License Course

- Course Outline (PDF)
- 1. Electronic Resources
- 2. General Class
- 3. License
- 4. Basic Concepts
- 5. License and EIR
- 6. Checking Your Radio
- 7. License Test Length
- 8. Test Results
- 9. License
- 10. License

### Useful Links

- [More About General Class](#)
- [More About General Class](#)
- [More About General Class](#)

### About Us and Ham Radio

All about CFARC and Ham Radio

### Meetings

Come join us. ALL are welcome!

### Activities and Resources

Club activities and resources (Meetings, Hamfest, Field Day, Repeater, Newsletter)

### Associates

Outside groups and associations

### CFARC Calendar

Calendar of CFARC and other events

### Photo Gallery

Photos of the various activities at CFARC

### Reference Page

CFARC and other reference information

### Membership

How to Join CFARC

The course materials are directly accessible via the URL:  
<http://www.j-grover.com/jim>. This is my families web page. The material may be accessed via the club web page at <http://www.cfarc.org>. From the splash page select “Activities and Resources” and then “Classes”. There you will find a link [j-grover.com/jim](http://j-grover.com/jim).

## Calculator

- Several questions require calculation
- Stand alone calculator may be used on exam.
- Cell phone calculator app not allowed
- Calculator reset before exam
- Sharp EL-501X Scientific Calculator provided during course and exam



Up to 5 questions out of the 35 may require math calculations. You may provide your own calculator for the exam but it may not have wireless capabilities such as a cell phone app. You must also must reset/clear all memory in the calculator. For the course and the exam we will provide a Sharp EL-501X scientific calculator.



## Sharp EL-501X

- Algebraic format
- Four functions +, -, \*, and / plus +/-
- = to evaluate
- log for decibels
- 2<sup>nd</sup> F 10<sup>x</sup> for anti-log
- Square root for RMS



The Sharp EL-501X uses algebraic format for data entry. The EL-501X supports the standard four arithmetic operators and change sign. To evaluate the expression press =. It also support log and anti-log operation for decibel problems. It also supports square root for root mean squared (RMS) problems.

Any Questions?



Are there any questions? (Once answered) Let's get started with the course.