

## SPARC Technician Class – January 2015

1. The Sterling Park Amateur Radio Club will conduct a Technician License preparation class.
2. Date/Time:  
Saturday and Sunday, 31 January – 1 February 2015.  
Class                      Saturday, 31 January 2015 0730 – 1730 and  
   Sunday, 1 February 2015 0730 – 1330
3. Place: Office of the Sheriff, Eastern Loudoun Station, 46620 East Frederick Drive, Sterling, VA 20164
4. Attendees: All interested people are invited to participate in the Technician license class. Classroom space is limited so prior registration is requested.
5. Fees: There is no fee for participation in the technician license class. Attendees may, but are not required to, contribute \$20 to defray the cost of drinks and lunches for both days.
6. The Technician License Preparatory Class Coordinator is Gordon, NQ4K, nq4k@arrl.net.
7. Pre-class study.  
Students should read a technician class study guide.

The recommended material is available for free on the internet at  
<http://www.kb6nu.com/wp-content/uploads/2014/05/2014-no-nonsense-tech-study-guide-v1.0.pdf>.

Other self-study guides are available from:  
ARRL at <http://www.arrl.org/shop/ARRL-Ham-Radio-License-Manual-3rd-Edition/>  
W5YI Group at <http://www.w5yi.org/catalog.php?sort=4>

Students are not required to bring the study guide to the class.

An On-Line Practice Exam is available and may be used by students.  
<http://copaseticflows.appspot.com/hamtest>

8. Publicity. (Coordinator: Gordon, NQ4K)
  - a. Class notice will be posted to the SPARC web site.
  - b. Notice of technician class and VE examination session will be submitted to ARRL for posting to their web site.
9. Food and drink. (Coordinator: TBD)
  - a. Donuts and coffee prior to beginning of class each day  
Dunkin Donuts. 2 doz / 17 people for each day.  
2 containers coffee – 1 regular, 1 decaf for 1<sup>st</sup> day. 1 additional container for 2<sup>nd</sup> day.
  - b. Light lunch provided each day  
Saturday: pizza from Joe's Restaurant  
Order at 1000 for lunch at 1200 703-444-9500. 1 large/ 3 people)  
Sunday: Subway subs. 21800 Towncenter Plz., Sterling, VA 20164 571-434-9170  
1 - 12 inch / 2 people, cut into 1/3s plus 10 percent. plus 2x large bags of chips.  
Dessert: 3-4 boxes of cookies (split between both days).
  - c. Soft drinks (1 case water, 2 cases (24 each) soda. In cooler with ice.
  - d. Disposables: Roll of paper towels, disposable cups, paper plates, trash bags
10. Instructor-Guided Class:

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Students will attend 12 hours of class covering all sub-elements of the technician class licensing test. The class material is the current version of the K3DIO instructor presentation.

The presentation modules and instructors are:

Element – Description	Sub-Elements	Briefing Pages	Start Time	Duration	Instructor
<b>Saturday</b>					
T1 – FCC Rules, descriptions and definitions for the Amateur Radio Service, operator and station license responsibilities	6	114	7:30	2:00	Paul, K4PDF
T2 - Operating Procedures	3	56	9:30	1:00	Chris, KK4HDG
T3 – Radio wave characteristics: properties of radio waves; propagation modes	3	54	10:30	1:00	Bill, K4UPE
<b>Lunch (at class site)</b>			11:30	1:00	
T4 - Amateur radio practices and station set up	2	55	12:30	1:00	Bill, K4UPE
T9 – Antennas and feed lines	2	72	13:30	1:30	Forrest, N4UTY
T0 – Electrical safety: AC and DC power circuits; antenna installation; RF hazards	3	44	15:00	1:00	Kevin, W4KLS
T7 – Station equipment: common transmitter and receiver problems; antenna measurements; troubleshooting; basic repair and testing	4	70	16:00	1:30	Kevin, W4KLS
<b>End of Saturday Class</b>			17:30		
<b>Sunday</b>					
T5 – Electrical principles: math for electronics; electronic principles; Ohm’s Law	4	40	7:30	1:00	Mark, KI4OBT
T8 – Modulation modes: amateur satellite operation; operating activities; non-voice communications	4	77	8:30	1:30	Blair, KC9BBW
T6 – Electrical components: semiconductors; circuit diagrams; component functions	4	80	10:00	1:30	Monte, KV4KS
<b>Lunch (at class site)</b>			11:30	1:00	
Practice Exams			12:30	1:00	
<b>End of Sunday Class</b>			13:30		
<b>Examination</b>			1400		