## SPARC Technician Class – September 2018

- 1. The Sterling Park Amateur Radio Club will conduct a Technician License preparation class.
- 2. Date/Time: Saturday and Sunday, 22-23 September 2018

Class Saturday, 22 September 2018, 0800 – 1700 and

Sunday, 23 September 2018, 0800 – 1200

Exam Session Sunday, 23 September 2018, 1300 (for class members), 1400 (for exam only)

See separate instructions for the exam.

- 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 preparation class. Classroom space is limited so prior registration is required.
- 5. Fees: There is no fee for participation in the technician license class.
- 6. The Technician License Preparation Class Coordinator is Gordon, NQ4K, nq4k@arrl.net.
- 7. Pre-class study.

Students should read a technician license class study guide.

The recommended material is available for free on the internet at

https://www.kb6nu.com/wp-content/uploads/2018/06/2018-no-nonsense-tech-study-guide-v1.pdf.

Alternatively, another free manual is at:

http://www.ad7fo.com/media/TechLic2018.pdf

Other self-study guides are available from:

ARRL at http://www.arrl.org/shop/ARRL-Ham-Radio-License-Manual-4th-Edition-Softcover W5YI Group at https://www.w5yi.org/catalog\_details.php?pid=79&sort=4 Students are not required to bring the study guide to the class.

An On-Line Practice Exams are available and may be used by students. Several sites are available.

http://copaseticflows.appspot.com/hamtest

https://www.qrz.com/hamtest/

https://hamexam.org/exam/12-Technician

https://hamexam.org/flash cards/12-Technician

http://www.eham.net/exams/

- 8. Radio demo. TBD
- 9. Refreshments (Coordinator: Gordon, NQ4K)
  - 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. Soft drinks (1 case water, 2 cases (24 each) soda placed in cooler with ice.
- c. Disposables: Roll of paper towels, disposable cups, trash bags.
- 10. Lunch: Participants should make provisions for their own lunch each day. Participants may bring in a bag lunch or go out for lunch.
- 11. Instructor-Guided Class:

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Twelve (12) hours of class cover all sub-elements of the technician class licensing test. The class material/presentation is the current version of the K3DIO instructor presentation.

Element – Description	Sub Elements	Briefing Pages	Start Time	Duration	Instructor
Saturday		_			
T1 – FCC Rules, descriptions and definitions for the Amateur Radio Service, operator and station license responsibilities	6	118	0800	1:30	Paul, K4PDF
T2 - Operating Procedures	3	63	0930	1:00	Earl, KBONRK
T8 – Modulation modes: amateur satellite operation; operating activities; non-voice communications	4	80	1030	1:00	Earl, KBONRK
Lunch			1130	1:00	
T7 – Station equipment: common transmitter and receiver problems; antenna measurements; troubleshooting; basic repair and testing	4	81	1230	1:00	Tod, KN4BGX
T3 – Radio wave characteristics: properties of radio waves; propagation modes	3	60	1400	1:00	Bill, K4UPE
T4 - Amateur radio practices and station set up	2	41	1500	0:30	Bill, K4UPE
T5 – Electrical principles: math for electronics; electronic principles; Ohm's Law	4	96	1530	1:00	Henry, K2BFY
End of Saturday Class			1630		
Sunday					
TO – Electrical safety: AC and DC power circuits; antenna installation; RF hazards	3	60	0800	1:00	Tod, KN4BGX
T6 – Electrical components: semiconductors; circuit diagrams; component functions	4	75	0900	1:00	Monte, KV4KS
T9 – Antennas and feed lines	2	42	1000	1:00	Monte, KV4KS
Practice Exams			1100	1:00	
End of Sunday Class			1200		
Lunch			1200	1:00	
Examination			1300		