

SPARC Technician Class – September 2017

1. The Sterling Park Amateur Radio Club will conduct a Technician License preparation class.
2. Date/Time:
 - Saturday and Sunday, 16-17 September 2017
 - Class Saturday, 16 September 2017, 0800 – 1700 and
 - Sunday, 17 September 2017, 0800 – 1200
 - Exam Session Sunday, 17 September 2017, 1300 (for class members), 1400 (for exam only)
 - See separate instructions.
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 class study guide.

The recommended material is available for free on the internet at

<http://www.kb6nu.com/wp-content/uploads/2015/03/2014-no-nonsense-tech-study-guide-v20.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 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://aa9pw.com/cgi-bin/exam2011.cgi>

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

8. Kevin, W4KLS, will demonstrate an HF station on Saturday. Other members will bring their 2M/70cm handheld radios for demonstration.
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 1st day. 1 additional container for 2nd 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.

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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:

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	114	0800	2:00	Paul, K4PDF
T2 - Operating Procedures	3	56	1000	1:00	Chris, KK4HDG
T3 – Radio wave characteristics: properties of radio waves; propagation modes	3	54	1100	1:00	Bill, K4UPE
Lunch			1200	1:00	
T4 - Amateur radio practices and station set up	2	40	1230	1:00	Bill, K4UPE
T0 – Electrical safety: AC and DC power circuits; antenna installation; RF hazards	3	55	1330	1:00	Kevin, W4KLS
T7 – Station equipment: common transmitter and receiver problems; antenna measurements; troubleshooting; basic repair and testing	4	77	1430	1:00	Kevin, W4KLS
T9 – Antennas and feed lines	2	44	1530	1:00	Monte, KV4KS
End of Saturday Class			1630		
Sunday					
T5 – Electrical principles: math for electronics; electronic principles; Ohm’s Law	4	80	0800	1:00	Gordon, NQ4K
T8 – Modulation modes: amateur satellite operation; operating activities; non-voice communications	4	73	0900	1:00	Blair, KC9BBW
T6 – Electrical components: semiconductors; circuit diagrams; component functions	4	70	1000	1:00	Monte, KV4KS
Practice Exams			1100	1:00	
End of Sunday Class			1200		
Lunch			1200	1:00	

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Examination			1300		
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