

**Sterling Park Amateur Radio Club (SPARC)
Technician License Preparation Class – September 2019**

1. The Sterling Park Amateur Radio Club (SPARC) will conduct a Technician License preparation class.
2. **Date/Time:** Saturday and Sunday, 21-22 September 2019
Class: Saturday, 21 September 2019, 0800 hrs. – 1700 hrs.
Sunday, 22 September 2019, 0800 hrs. – 1200 hrs.
Exam Session: Sunday, 22 September 2019, 1300 hrs. (for class members), 1400 hrs. (for exam-only candidates)
Please see separate instructions for the licensing examination.
3. **Venue:** Office of the Sheriff, Eastern Loudoun Station, 46620 East Frederick Drive, Sterling, VA 20164
4. **Attendees:** All interested persons 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 preparation class.
6. **Coordinator:** The Technician License Preparation Class Coordinator is Amitabha “Amit” Mukherjee, WY2Z, amit5201@gmail.com.
7. **Pre-class study:**
Students are advised to 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/2018/11/2018-no-nonsense-tech-study-guide-v1-1.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.

Online Practice Exams are available and may be used by students. Several sites are available, such as:
<https://www.qrz.com/hamtest/>
<https://hamexam.org/exam/15-Technician>
https://hamexam.org/flash_cards/15-Technician
<http://www.eham.net/exams/>
8. **Radio demonstration** will be conducted by Kevin, W4KLS
9. **Refreshments** (Coordinators: Gordon NQ4K and Amit WY2Z):
 - a. Donuts and coffee prior to beginning of class each day
Donuts - 2 dozen / 17 people for each day.
Coffee – 1 30-cup pot of regular coffee per 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 provision for their own lunch each day. Participants may bring in a bag lunch or go out for lunch.

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11. Instructor-Guided Class:

Twelve (12) hours of class cover all sub-elements of the Technician Class licensing examination. 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, KB0NRK
T8 – Modulation modes: amateur satellite operation; operating activities; non-voice communications	4	80	1030	1:00	Earl, KB0NRK
Lunch			1130	1:00	
T7 – Station equipment: common transmitter and receiver problems; antenna measurements; troubleshooting; basic repair and testing	4	81	1230	1:00	Kevin, W4KLS
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					
T0 – Electrical safety: AC and DC power circuits; antenna installation; RF hazards	3	60	0800	1:00	Kevin, W4KLS
T6 – Electrical components: semiconductors; circuit diagrams; component functions	4	75	0900	1:00	Tod, KN4BGX
T9 – Antennas and feed lines	2	42	1000	1:00	Larry, W8ANT
Practice Exams			1100	1:00	
End of Sunday Class			1200		
Lunch			1200	1:00	
Examination			1300		