

**Sterling Park Amateur Radio Club (SPARC)  
Technician License Preparation Class – February 22-23, 2020**

1. The Sterling Park Amateur Radio Club (SPARC) will conduct a Technician License preparation class.
2. **Date/Time:** Saturday and Sunday, 22-23 February 2020  
**Class:** Saturday, 22 February 2020, 0800-1700 hrs.  
Sunday, 23 February 2020, 0800-1200 hrs.  
**Exam Session:** Sunday, 23 February 2020, 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](mailto: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](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:  
<http://copaseticflows.appspot.com/hamtest>  
<https://www.qrz.com/hamtest/>  
<https://hamexam.org/exam/12-Technician>  
[https://hamexam.org/flash\\_cards/12-Technician](https://hamexam.org/flash_cards/12-Technician)  
<http://www.eham.net/exams/>
8. **Refreshments** (Coordinators: Gordon NQ4K and Amit WY2Z):
  - a. Donuts and coffee prior to beginning of class each day  
Donuts - 3 dozen / 24 persons 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.
9. **Lunch:** Participants should provide for their own daily lunch: they may bring in a bag lunch or go out for lunch.

**Sterling Park Amateur Radio Club (SPARC)  
Technician License Preparation Class – February 22-23, 2020**

**10. 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.

<b>Element &amp; Description</b>	<b>Sub-Elements</b>	<b>Briefing Pages</b>	<b>Start Time</b>	<b>Duration</b>	<b>Instructor</b>
<b>Saturday</b>					
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
T5 – Electrical principles: math for electronics; electronic principles; Ohm’s Law	4	96	1130	1:00	Henry, K2BFY
<b>Lunch</b>			1230	1:00	
T7 – Station equipment: common transmitter and receiver problems; antenna measurements; troubleshooting; basic repair and testing	4	81	1330	1:00	Monte, KV4KS
T0 – Electrical safety: AC and DC power circuits; antenna installation; RF hazards	3	60	1430	1:00	Bruce, KN4TS
T3 – Radio wave characteristics: properties of radio waves; propagation modes	3	60	1530	1:00	Bill, K4UPE
T4 - Amateur radio practices and station set-up	2	41	1630	0:30	Bill, K4UPE
<b>End of Saturday Class</b>			1700		
<b>Sunday</b>					
T6 – Electrical components: semiconductors; circuit diagrams; component functions	4	75	0800	1:00	Tod, KN4BGX
T9 – Antennas and feed lines	2	42	0900	1:30	Larry, W8ANT
Practice Exams			1030	1:30	
<b>End of Sunday Class</b>			1200		
<b>Lunch</b>			1200	1:00	
<b>Examination</b>			1300		