

Sterling Park Amateur Radio Club (SPARC)
Technician License Preparation Class: 05-06 February 2022

1. The Sterling Park Amateur Radio Club (SPARC) will conduct a Technician License Preparation Class.
2. **Date/Time:** Sat and Sun, 05-06 February 2022.
Class: Sat 05 February 2022: 0800 – 1700 hrs. Sun 06 February 2022: 0800 – 1200 hrs.
Licensing Exam: Sun 06 February 2022: 1300 hrs. (for class members) and 1400 hrs. (for exam-only candidates)
Please see separate registration and other instructions for the Licensing Examination!
3. **Venue:** Loudoun County Sheriff's Office, Eastern Loudoun Station, 46620 E. Frederick Drive, Sterling, VA 20164
4. **Attendees:** All interested persons are invited to participate in the Technician License Preparation Class. Please note that: (1) classroom space is limited, so **prior registration is required**, (2) social distancing will be maintained, and (3) ALL Class participants and Instructors will be required to wear masks indoors at all times.
5. **Fees:** There is no fee for participation in the Technician License Preparation Class.
6. **Coordinator:** The Class Coordinator is Amitabha "Amit" Mukherjee, WY2Z, amit5201@gmail.com. Intending participants should please email him to register for the Class.
7. **Pre-class study:**
Students are advised to read a Technician License Class study guide: the recommended material can be accessed for free 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>
More free resources on the web: [ARRL's Free Companion course](#) on the ARRL YouTube Channel:
Dave Casler Technician License Series (37 videos by Dave Casler, KE0OG) covering the Tech syllabus: click on https://www.youtube.com/playlist?list=PLuaplzKwhZN_30dcgsDbGU3J7C8BAYJcG
Other self-study guides are available from:
ARRL at <http://www.arrl.org/shop/Ham-Radio-License-Manual/>
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:
<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. **Antenna demonstration:** Larry, W8ANT.
9. **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.
10. **Refreshments** (Coordinators: Gordon NQ4K and Amit WY2Z):
 - a. Donuts & coffee prior to beginning of class each day: 2 dozen donuts daily; 1 30-cup pot of regular coffee daily.
 - b. Soft drinks: 1 case water, 2 cases (24 each) soda placed in cooler with ice.
 - c. Disposables: Spare masks, hand sanitizer, roll of paper towels, disposable cups, trash bags.
11. **Lunch:** Participants should provide for their own daily lunch: they may bring a bag lunch or go out for lunch.

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Element & Description	Sub-Elements	Briefing Pages	Start Time	Duration	Instructor
Saturday 05 February 2022					
T1 – FCC Rules, descriptions and definitions for the Amateur Radio Service, operator & station license responsibilities	6	118	0800	1:30	Gordon, NQ4K
T2 - Operating Procedures	3	63	0930	1:00	David, KF4PBU
T8 – Modulation modes: amateur satellite operation; operating activities; non-voice communications	4	80	1030	1:00	Steve, KS1G
T5 – Electrical principles: math for electronics; electronic principles; Ohm’s Law	4	96	1130	1:00	Eric, KF5LR
Lunch			1230	1:00	
T7 – Station equipment: common transmitter and receiver problems; antenna measurements; troubleshooting; basic repair and testing	4	81	1330	1:00	Larry, W8ANT
T0 – Electrical safety: AC and DC power circuits; antenna installation; RF hazards	3	60	1430	1:00	David, KF4PBU
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
End of Saturday Class			1700		
Sunday 06 February 2022					
T6 – Electrical components: semiconductors; circuit diagrams; component functions	4	75	0800	1:00	Eric, KF5LR
T9 – Antennas and feed lines	2	42	0900	1:30	Larry, W8ANT
Practice Exams			1030	1:30	Amit, WY2Z
End of Sunday Class			1200		
Lunch			1200	1:00	
Examination begins			1300		