Sterling Park Amateur Radio Club (SPARC) Technician License Preparation Class – 22-23 February 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) and 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 can be accessed 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:

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 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 provide for their own daily lunch: they may bring 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 & 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
T5 – Electrical principles: math for electronics; electronic principles; Ohm's Law	4	96	1130	1:00	Henry, K2BFY
Lunch			1230	1:00	
T7 – Station equipment: common transmitter and receiver problems; antenna measurements; troubleshooting; basic repair and testing	4	81	1330	1:00	Kevin, W4KLS
TO – Electrical safety: AC and DC power circuits; antenna installation; RF hazards	3	60	1430	1:00	Kevin, W4KLS
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					
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	
End of Sunday Class			1200		
Lunch			1200	1:00	
Examination			1300		