

**Tentative Instructions and Schedule: Version 08 Feb 2022**

**Sterling Park Amateur Radio Club (SPARC): Technician License Preparation Class  
INOVA Loudoun Hospital: 0730-1830 hrs. on Saturday 05 March 2022**

1. The Sterling Park Amateur Radio Club (SPARC) will conduct a Technician License Preparation Class.
2. **Class Date & Time:** Saturday 05 March 2022, from 0730 hrs. to 1830 hrs. per the Schedule overleaf.  
**Licensing Exam:** Saturday 05 March 2022 from 1900 hrs. (for registered class members only – no walk-ins!)  
**Please see separate Instructions from Gordon NQ4K, for the Licensing Examination!**
3. **Venue:** INOVA Loudoun Hospital, 44045 Suite 160 Riverside Pkwy, Leesburg, VA 20176 (room to be confirmed)
4. **Participants:** Please note that: (1) prior registration is required – Scott WB6EFW/James Sanger may please share class participants' names and information (per format provided) with SPARC Coordinators, by 28 February 2022, (2) social distancing will be maintained, and (3) Class participants and Instructors will wear masks indoors.
5. **Fees:** There is no fee for participation in the Technician License Preparation Class.
6. **Coordinators:** The Class Coordinator is Amitabha "Amit" Mukherjee, WY2Z, [amit5201@gmail.com](mailto:amit5201@gmail.com), mobile 202 247 8826. The Exam Coordinator is Gordon Miller, NQ4K, [gormil@aol.com](mailto:gormil@aol.com).

**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](https://www.youtube.com/playlist?list=PLuaplzKwhZN_30dcgsDbGU3J7C8BAYJcG)

Other self-study guides are available such as those 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](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. Instructor-Guided Classes:**

Class sessions will cover all sub-elements of the Technician Class Licensing Examination. The class material/presentation is the current version of the K3DIO instructor presentation, updated by Gordon Miller NQ4K.

**9. Refreshments/lunch** (Coordinator: Scott Morse WB6EFW & James Sanger):

- a. Donuts, coffee/tea, water and sodas prior to beginning of class
- b. Disposables: Spare masks, hand sanitizer, roll of paper towels, disposable cups, trash bags
- c. Buffet/boxed lunch will be provided by INOVA, at the agreed time, to participants and Instructors

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**SPARC Technician License Preparation Class: Tentative Class Schedule**

INOVA Loudoun Hospital, 44045 Suite 160 Riverside Pkwy, Leesburg, VA 20176

05 March 2022

<b>Sub-Element &amp; Description</b>	<b>Topics</b>	<b>Briefing Pages</b>	<b>Start Time</b>	<b>Duration</b>	<b>Instructor (TBC)</b>
T1 – FCC Rules, descriptions and definitions for the Amateur Radio Service, operator and station license responsibilities	6	118	0730	1:30	TBC
T2 - Operating Procedures	3	63	0900	1:15	David, KF4PBU
<b>Break (Practice Questions)</b>			<b>1015</b>	<b>0:15</b>	Amit, WY2Z
T0 – Electrical safety: AC and DC power circuits; antenna installation; RF hazards	3	60	1030	0:45	David, KF4PBU
T3 – Radio wave characteristics: properties of radio waves; propagation modes	3	60	1115	0:45	Bill, K4UPE
T4 - Amateur radio practices and station set-up	2	41	1200	0:30	Bill, K4UPE
<b>Lunch (Practice Questions)</b>			<b>1230</b>	<b>0:30</b>	Amit, WY2Z
T5 – Electrical principles: math for electronics; electronic principles; Ohm’s Law	4	96	1300	1:00	Erik, KF5LR
T6 – Electrical components: semiconductors; circuit diagrams; component functions	4	75	1400	1:00	Tod, KN4BGX
T7 – Station equipment: common transmitter & receiver problems; antenna measurements; troubleshooting; basic repair and testing	4	81	1500	0:45	Larry, W8ANT
<b>Break (Practice Questions)</b>			<b>1545</b>	<b>0:30</b>	Amit, WY2Z
T9 – Antennas and feed lines	2	42	1615	1:15	Larry, W8ANT
T8 – Modulation modes: amateur satellite operation; operating activities; non-voice communications	4	80	1730	0:45	Steve, KS1G
Practice Questions			1815	0:15	Amit, WY2Z
<b>End of Class/Break + Candidates’ Document Review</b>			<b>1830*</b>	<b>0:30</b>	
<b>Exam Begins: Exam Coordinator Gordon NQ4K</b>			<b>1900**</b>	<b>3:00</b>	Gordon, NQ4K
<b>Anticipated Wrap-up/End of Event</b>			2200		

Notes:

\*Time needed to check candidate IDs/documents, collect \$15 exam fee, review each Form 605, complete candidate files, and distribute exam & answer sheets. \*\*Grading is anticipated to begin at about 1930 hrs. and take 2-2.5 hours to complete.