

SPARC Technician Class – March 2019

1. The Sterling Park Amateur Radio Club will conduct a Technician License preparation class.
2. Date/Time: Saturday and Sunday, 2-3 March 2019
Class Saturday, 2 March 2019, 0800 – 1700 and
Sunday, 3 March 2019, 0800 – 1200
Exam Session Sunday, 3 March 2019, 1300 (for class members), 1400 (for exam only)
See separate instructions for the exam.
3. Place: Office of the Sheriff, Eastern Loudoun Station, 46620 East Frederick Drive, Sterling, VA 20164
4. Attendees: All interested people 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 class.
6. The Technician License Preparation Class Coordinators are Gordon, NQ4K, nq4k@arrl.net, and Amitabha “Amit” Mukherjee, KC3HVX, amit5201@gmail.com.

7. Pre-class study.

Students should 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.

An On-Line Practice Exams are available and may be used by students. Several sites are available.

<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 demo. Kevin, W4KLS

9. Refreshments (Coordinator: Gordon, NQ4K)

- 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 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 provisions 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 test. 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 | Monte, KV4KS |
| T9 – Antennas and feed lines | 2 | 42 | 1000 | 1:00 | Monte, KV4KS |
| Practice Exams | | | 1100 | 1:00 | |
| End of Sunday Class | | | 1200 | | |
| Lunch | | | 1200 | 1:00 | |
| Examination | | | 1300 | | |