

Saturdays: HF Operation Demo & Introduction: Join Carl (N2VQO) in the Radio Room for a demonstration and hands-on instruction of HF operation using the ICOM 7300. The session is geared towards Technicians upgrading to General Operations but is open to all interested in HF operation. Check the calendar to confirm Carl's availability.

Third Saturday of the Month 12pm: License Testing: It's easy to get started in Amateur Radio! A straightforward multiple-choice exam will test your basic understanding of the fundamentals of radio and FCC rules! Preregister with David Morrill. VE Coordinator Phone: 623-680-5011 cell or email: N7TWT@cox.net

SUNDAY! Apr 5 Noon: Test and Measurement 101 - Multimeters & Voltmeters: Exploring the use of multimeters and voltmeters to measure various components and simple circuits, the group will measure continuity, resistance, voltage, and current. We also take a brief look at capacitors, diodes, and transistors. Along the way we will discuss math formulas (mainly related to Ohms Law) to help determine expected results of measurements. The math involves simple algebra concepts. Measurement exercises include measuring and calculating component values for series and parallel circuits and determining power requirements. Limit 5 Students.

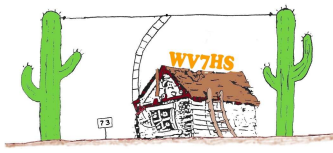
NEW Monday Apr 6 Noon: CLASS/Workshop: PL259 Connector Installation: Come get hands-on experience and learn how to install PL259 connectors!

CLASS FULL!! Monday Apr 13 Noon: Workshop - NanoVNA Practical Testing: This class is a continuation of the NanoVNA-101 class lecture and is intended for those who have attended the NanoVNA-101 class or have experience with the NanoVNA. This is a practical hands-on class where participants will perform the following, using the NanoVNA:

- **Antennas:** Perform an antenna sweep and align to a specific frequency. Impedance, Resonant Frequency, SWR and return loss will be measured, documented and interpreted.
- **Coax:** Coax will be swept to determine length, impedance, Loss will be measured. Documented results will be evaluated for serviceability.
- **Baluns:** Perform a BALUN sweep to determine impedance and SWR. Documented results will be evaluated for serviceability.
- **Filter Sweep:** A bandpass filter will be swept to check alignment (Pass Frequency), Impedance, SWR, Insertion Loss and Out of Band Rejection. Documented results will be evaluated for filter performance.
- **Manual Tuner:** A manual tuner will be used to achieve resonance and low SWR on an external antenna. Impedance, Resonant Frequency, SWR and Return Loss will be measured, documented and interpreted.

Prerequisite – NanoVNA-101 or NanoVNA Proficiency. Class is 3 hours. Please bring your NanoVNA. Limit of 5 Students – sign up early!. (Observers welcome)

Saturday Apr 18: World Amateur Radio Day 9am-1pm: Come visit us during our free open house at the Shack and meet fellow radio & electronics enthusiasts! We'll have Live amateur radio demonstrations including FT-8, vintage radio equipment show-and-tell, and hands-on electronics displays. Light refreshments will be provided. Discover the hobby again! See how amateur radio has evolved from vintage equipment to modern digital communications. Explore our collection of radios spanning nearly a century and learn how operators today communicate around the world. This is a great opportunity to introduce family and friends to amateur radio and visit the Shack.



WV7HS Events

Monday Apr 20 Noon: Working Satellites with Ham Radio: This class is for Hams (Technician class or higher) interested in working satellites for the first time. You will learn the basic principles of amateur radio satellite operation, how to select the appropriate equipment for a basic satellite station, and how to use resources with smart phone apps and online software to predict satellite passes. You'll also learn how to compensate for the Doppler effect on satellite signals, successfully receive signals and make contacts on FM satellites, and log and confirm satellite contacts.

Sunday Apr 26 Noon: Workshop - NanoVNA Practical Testing: This class is a continuation of the NanoVNA-101 class lecture and is intended for those who have attended the NanoVNA-101 class or have experience with the NanoVNA. This is a practical hands-on class where participants will perform the following, using the NanoVNA:

- **Antennas:** Perform an antenna sweep and align to a specific frequency. Impedance, Resonant Frequency, SWR and return loss will be measured, documented and interpreted.
- **Coax:** Coax will be swept to determine length, impedance, Loss will be measured. Documented results will be evaluated for serviceability.
- **Baluns:** Perform a BALUN sweep to determine impedance and SWR. Documented results will be evaluated for serviceability.
- **Filter Sweep:** A bandpass filter will be swept to check alignment (Pass Frequency), Impedance, SWR, Insertion Loss and Out of Band Rejection. Documented results will be evaluated for filter performance.
- **Manual Tuner:** A manual tuner will be used to achieve resonance and low SWR on an external antenna. Impedance, Resonant Frequency, SWR and Return Loss will be measured, documented and interpreted.

Prerequisite – NanoVNA-101 or NanoVNA Proficiency. Class is 3 hours. Please bring your NanoVNA. Limit of 5 Students – sign up early!. (Observers welcome)

Monday Apr 27 Noon: Making Contacts with Fusion & Wires X: Learn how to get the most out of your Yaesu Fusion Radio! We will learn the difference between Fusion, Wires X, and YSF. You'll learn how to use the C4FM mode on your Yaesu radio on a repeater or with a HotSpot.