WVHS Events

To register email: westvalleyhamshack@gmail.com

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

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Monday Feb 2 Noon: Antenna Solutions for HOAs: A course focusing on small lot solutions for antennas for HOA-restricted situations. For HF, VHF/UHF, and Satellite antennas. Commercial and DIY solutions discussed.

Monday Feb 9 Noon: Introduction to DMR: Do you have a new DMR radio and you want to take advantage of all that extra capability? This class will help you get started on DMR Brandmeister. Although we will not cover specific radios, we can help you make sense of the radio you have. Or maybe you just want to see what DMR is all about and you haven't purchased a DMR radio yet!

NEW!! SUNDAY Feb 15 Noon: Winlink: Learn how you can use Winlink to send and receive emails including attachments using ham radio frequencies (UHF, VHF, or HF). It can function with or without internet and is particularly helpful during disasters when conventional communication lines fail.

NEW 1 Spot left!! Feb 16 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 4 Students – sign up early!. *(Observers welcome)*

NEW!! SUNDAY Feb 22 Noon: How to Get Started in 3D Printing: Ever wanted to dive into 3D printing? Learn the essentials of 3D printing in this beginner-friendly course. Students explore how 3D printers work and how to prepare digital models for printing. This class will show you a printer and basic parts you need to complete a project. We'll talk about how to get started designing and printing your own projects!

Our classes are typically limited to 10 students, are free, and open to the public (you do not need to be a member). Lab-based classes have a lower participant limit and may have a material fee. Classes can fill up quickly, but we will put you on a waiting list. We use the waiting list as a gauge of interest to determine which classes to schedule. Website: westvalleyhamshack.com

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NEW 1 Spot left!! Monday Feb 23 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.

Sunday March 15 Noon: Soldering: Learn by "hands on" use of soldering iron with point-to-point and circuit board soldering practice, a basic class for beginners. Limit 6 Students. Soldering irons are available for use.

Monday Mar 16 Noon: NanoVNA 101: The objective of this class is to familiarize the participant with the basic functions of the Nano Vector Network Analyzer (NanoVNA). Some of the topics include navigating the VNA menu, calibration, setting the measurement range and setting up sweeps to perform reflective (S11) and thru S21 Tests. Knowledge of these VNA functions will allow the user to make basic measurements such as Standing Wave Ratio (SWR), Return Loss in dB's, Line Loss in Coax, Length of Coax, Frequency Range of an Antenna and Resonate Frequency. If you have a NanoVNA, please bring it! 3 hr class.

ONLINE or IN-PERSON! Monday Mar 23 Noon: What is GMRS & Why You Should Use It: Learn about the fast-growing General Mobile Radio Service, a segment of the UHF band. Frank K7SD/WRVG584 explains licensing procedures, practical uses, and gives a lay of the land for GMRS in Phoenix, and beyond. See why GMRS is a must for your radio toolbox!

Monday Mar 30 Noon: Discovering your Technician Privileges: Now that you have your Technician license do you know what you can do with it? You can still talk all over the country, or even all over the world with the right gear and tools. In this class, we will help you get the most out of your technician license. This class is perfect for new Hams or even hams who have had their technician license for years but haven't ventured out beyond the local repeater.

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:

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