



## WVHS Sept 2024 Classes

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The West Valley Electronics Club (aka West Valley Ham Shack) added classes to the calendar! 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.

Visit the calendar of events on our website: <https://www.westvalleyhamshack.com/calendar-of-events> for the latest schedule. Email [westvalleyhamshack@gmail.com](mailto:westvalleyhamshack@gmail.com) to register for a class

Upcoming classes are listed below. Classes are at **9am on Mondays** and are ~2hrs in length unless otherwise specified:

**Sep 2<sup>nd</sup>: 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.

**Sep 9<sup>th</sup>: General Class Electrical Principles (G5)** – Advance toward your General class license with this new proposed Electrical Principles class just for Technicians. Material to be covered includes the Sub-Element G5 questions on the FCC test. One question from each of the following areas will appear on the test:

- Resistors, capacitors, and inductors in series and parallel; and transformer basics.
- The decibel; current and voltage dividers; electrical power calculations; sine wave root-mean-square (RMS) values; PEP calculations.
- Reactance, inductance, capacitance, impedance, impedance transformation, resonance.

Some math is involved, but it is straight forward. A calculator would be helpful.

**Sep 16<sup>th</sup>: Parks on the Air (POTA)** -- Learn about the new craze in portable amateur radio operations that promotes emergency awareness and communications from national and state parks. This course teaches you how to hunt parks from the comfort of your shack, and how to activate a park and rack up many contacts from experienced activator, Frank K7SD. You'll also learn the basics of building a "go-box" for portable operations.

**NEW!! Sep 23<sup>rd</sup>: 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!

**Sep 30<sup>th</sup>: 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!