

# ANTIQUE WIRELESS MUSEUM



## **LEARN IT, BUILD IT, FIX IT CLASSES**

### **LEARN ABOUT VACUUM TUBE TECHNOLOGY**

#### **BUILD A TUBE AMPLIFIER KIT**

#### **FIX YOUR AMP – LEARN TO TEST**

### **10/15/22 – 10/29/22– FUNDAMENTALS**

- **Safety**
- **Introduction: sound & waveforms**
- **Audio amplification & music**
- **Basic electricity & electronics**
- **Multi-channel sound – stereo and beyond**
- **Passive & active circuit elements**
- **Active circuit elements: the vacuum tube**
- **Vacuum tubes in amplifiers; classes of operation; distortion**
- **Speaker systems; how they work; types**
- **Test & measurement equipment; VOM, VTVM; DVM; oscilloscopes**
- **Soldering 101: How to solder & soldering equipment**
- **Basic construction tools and techniques**

### **11/5/2022 – 11/19/22 – BEGIN WORK ON YOUR PROJECT**

- **In-class work on your project with help & guidance**
- **Final testing**

**Cost:** The cost for the six classes is \$180 and includes a one year, on-line membership in AWA; plus the student must purchase and have available the tube stereo amplifier kit of their choice or an amp to restore by 10/29/21, soldering equipment and tools. Sessions will be held on Saturdays 9 am to 1pm at the Antique Wireless Museum, 6925 Route 5, Bloomfield, NY.

**For more information and registration form, visit:**

<https://antiquewireless.org/homepage/learn-build-fix-classes/>

**Send questions to [EducationCoordinator@AntiqueWireless.org](mailto:EducationCoordinator@AntiqueWireless.org)**