



We are pleased to announce our 2020 Amateur Radio Education Series. This will be a collection of seminars aimed at individuals having an interest in amateur radio and/or electronic experimentation and construction. The first class in the series will be "How to Solder" and will begin at 1:00 pm, Saturday, March 14 in Linden, AZ.

The seminar cost is \$10 and open to anyone with a desire to learn about or improve his or her soldering skills. Seating is limited so early signup is encouraged. Registration deadline is February 11, 2020. If interested contact us here: <mailto:class@drwilx.com?subject=Soldering Class> to register or to obtain additional information.

This introductory level class will concentrate on good soldering practices including:

- Proper safety considerations to be observed while soldering,
- Component soldering such as resistors, capacitors (wafer and electrolytic), transistors, diodes, IC sockets and other commonly used parts,
- Use of heat sinks to protect components,
- Wire to wire and connector soldering,
- Through hole construction,
- Manhattan or dead bug construction,
- Third hand and other techniques for safely holding construction materials while soldering,
- Component testing and identification (proper orientation and value),
- Tools commonly used while building electronic circuits including: safety glasses, pliers, cutters, soldering irons and solder, and flux,
- De-soldering techniques.

The seminar will include a take-home electronic circuit project for you to assemble and solder. The project includes a wide variety of components with which to work enabling you to become familiar with each of them.

You are encouraged to bring your own tools including: safety glasses (required), 15 to 40 watt soldering iron, solder (1.5mm or smaller rosin core), small diagonal cutters, small needle nose pliers, third hand or printed circuit board holder, and reading glasses if you use them for reading. If you do not have these tools we will have a very limited amount available for the construction project, but it would be best for you to bring your own tools. Recent prices at Harbor Freight for the pliers, cutters and safety glasses were \$1.99 each. Soldering iron and helping hands were \$4.99.

SAFETY GLASSES ARE REQUIRED - please pick up a pair before attending the class.