

# GENERAL AMATEUR RADIO LICENSE CLASS

**Based on the new General license question pools as of July 1<sup>st</sup>, 2007\***

**STARTING Saturday, July 24<sup>th</sup> 2010, 10AM to 1:00PM at the  
Arizona Science Center Boardroom "A"  
(600 E. Washington St, downtown Phoenix)**

Instructor: Bob Burleson, KG7QJ

July 24<sup>th</sup> – September 11<sup>th</sup>, 10:00am - 1:00pm  
Seven 3-hour Sessions: VE Test at the Arizona Science Center.

**To register call Bob, KG7QJ, at 480-961-1109**

or

**E-Mail: [kg7qj@cox.net](mailto:kg7qj@cox.net).**

**Fee: \$10**

Required text "ARRL General Class License Manual", 6<sup>th</sup> Edition, will be available from the instructors at the first class for \$20. The fee for the FCC Amateur License test at the end of the class is \$15

Sign up today to upgrade to the General class license! Class material is based on the ARRL book "General Class License Manual" (6<sup>th</sup> edition) containing the new General license question pools as of July 1<sup>st</sup> 2007

**Morse code is no longer required for the General class license.**

"Hams" with the General class Amateur Radio license have privileges on all Amateur bands. Communicate with other Amateur Operators all over the world! You can operate CW, PSK31, SSB, AM voice, FM voice (on 10 meters and above), Amateur TV, Packet, Satellite, and many other modes.

The **General amateur radio license written test session** will be available **at the last class Saturday 9/11/2010. Note: no class Labor Day weekend.** Other VE testing opportunities will be announced. If you are interested in upgrading to the Amateur General Class license contact Bob, KG7QJ at 480-961-1109 or E-Mail [kg7qj@cox.net](mailto:kg7qj@cox.net).

**Over for Class outline**

# General License Class Outline

For more information contact Bob Burlison, KG7QJ, at 480-961-1109 or e-mail at [kg7qj@cox.net](mailto:kg7qj@cox.net)

## **Class #1 7/24 (Board Room "A")**

**Introduction**, General Class & Amateur Radio, How to Use the Manual, Upgrade, Rules & Regulations, Regulatory Bodies, Amateur Licensing Rules, Control Operator, Frequency Privileges.

## **Class #2 7/31 (Board Room "A")**

**Operating Procedures & Practices**, HF Operating, Digital Modes, Nets & Emergency Ops, Technical Rules & Standards, HF Station Installation

## **Class #3 8/7 (Board Room "A")**

**Practical Electronics**, Components & Circuits Review, Power Amplifiers, Power Measurement, Using Test Equipment, RFI, TVI, PEP calculations. Ohm's Law & Resistance calculations, Kirchhoff's laws, AC Voltage, RMS, Impedance, Reactance, Transformers, Power Calculations, dB, Semiconductor Components, Practical Circuits,

## **Class #4 8/14 (Board Room "A")**

**Electrical Principles**, Radio Signals & Equipment, Signal Review, Radio Building Blocks, Transmitter Structure, Receiver Structure

## **Class #5 8/21 (Board Room "A")**

**Antennas**, Dipole, Ground Plane, & Random Wire, Yagi Antennas, Loop Antennas Specialized Antennas, SWR, Feed Lines. **RF Safety**: RF Rules and Guidelines, Max Permissible RF Exposure, Station RF evaluation, Outdoor Safety, Safety in the Ham Shack, Electrical Wiring Safety, Safe Station Layout. RF Safety

## **Class #6 8/28 (Board Room "A")**

**Radio Propagation**, Types of Radio Propagation, Ionosphere, Critical Frequency, MUF, Scatter Modes, Solar Flux, HF Beacons, DX, Signals and Emissions. Testing Hints.

**Note: No test Labor Day weekend 11/4-11/6**

**Test Session Saturday 9/11 AZ Science Center Board Room "A"**

Amateur License Testing 10:00 AM. ARRL VE fee is \$15. Extra Class testing will be available.

## **Hamfests**

ARRL AZ State Convention & Hamfest, Williams AZ 7/16-7/18 2009

### **Amateur License Exam Info:**

1 <sup>st</sup> Sat	DeVry/West Valley	David, N7TWT	(623) 925-0680
3 <sup>rd</sup> Mon	AZ DESERT 10-10	Steve, KY7W	(480) 804-1469
4 <sup>th</sup> Sat	AARC [Must pre-register]	Gary, K7GH	(602) 996-8148