



Cochise Amateur Radio Association
2756 S. Moson Rd, Sierra Vista, AZ 85650
presents



The Cochise Hamfest and 7th Area Phone/CW/Digital Communications Exercise

Saturday, May 3rd, 2025

Free Parking and Admission

Hamfest Gate Opens @ 07:00

Amateur Radio License Testing: 09:00-11:00

Prize Drawing @ 11:00

Talk In: 146.76(-) PL 162.2

Tailgating - \$5, Covered Area - \$10



First Prize: Icom IC-2730A Dual-Band Mobile Transceiver

Second Prize: RigExpert AA-35 Zoom Antenna Analyzer

Third Prize: Icom IC-T10 Dual-Band Handheld Transceiver

Fourth Prize: Diamond X30A VHF/UHF Base Station Antenna

*Local Sierra Vista accommodations and shopping
within 15 minutes of Hamfest site*

Visit us on the web at <https://k7rdg.org/>

For more info contact: KN6EQG – mailrandydoss@gmail.com

We look forward to seeing you there!





Announcing the 7th Call Area QSO Party (7QP) will take place on May 3-4th 2025 starting at 1300 UTC (6:00A MST) on Saturday the 3rd. The 7QP is an amateur radio contest, held annually on the first Saturday in May by the Central Oregon DX Club. The stations of the US 7th call area (Arizona, Idaho, Montana, Nevada, Oregon, Utah, Washington, Wyoming) become "the pursued", and the rest of the US, Canada, and the world tries to work as many of us, on as many bands/modes as possible, over the 18-hour period. For the organizers of 7QP, a key objective is to get as many of the state's counties (15 Arizona counties) activated for at least some of the contest by promoting serious "roving" mobile operation and county-line stations, and the casual-operator at fixed stations in under-populated counties. Why not consider turning a camping trip into a ham expedition? There are many entry categories (more than most other contests) so there is something for everyone. Working this contest is far more rewarding from that remote location than an otherwise normal contest weekend at home. Historically, counties such as Cochise, Gila, Graham, La Paz, Navajo and Pinal are often soft in participation, so they should always be considered. Visit <http://7qp.org/new/Page.asp?Content=start> for rules and complete description and information. Additionally, folks can announce their planned operation by sending an email to 7qpops@codxc.org

73,

Andy Smith, KK7AC

Arizona Captain, 7th Call Area QSO Party

2025 Prescott Hamfest

May 31, 2025

The DX Store
www.dxstore.com



NEW LOCATION

Bradshaw Mountain High School

6901 East Panther Path, Prescott Valley, AZ 86314

Call-In Station: K7MRG 147.000 MHz + 600 KHz with PL of 162.2 Hz. Also simplex: 146.520 MHz

Saturday May 31 Schedule

- 0730 Hamfest opens.
- 0800 to 1100 Hourly Prize Drawings
- 1130 Grand Prize Drawings (You do not need to be present.)
- 1200 Hamfest ends.

YOU ARE ENCOURAGED TO PRE-REGISTER FOR SWAPFEST SPACES AT

<https://prescotthamfest.com/tailgating/>

DUE TO LIMITED CLEARANCE - RVs, CAMPERS, AND TRAILERS WILL NOT BE PERMITTED.

Featuring:

- ✓ Tail Gate Swapfest
- ✓ Consignment Sales
- ✓ VE License Exams
- ✓ Grand Prize / Hourly Prize Drawings
- ✓ ARRL Booth / QSL Card Checking
- ✓ Coffee and Donuts

General Admission \$5.00 per person

Swapfest - Mostly Covered Parking Lot Spaces \$10.00 each - max 5 spaces

Full-Time Students FREE with Student ID / 16 Years and Younger FREE

An ARRL sanctioned and ARCA co-sponsored event



Grand Prizes

YAESU FTDX10 HF/6M Hybrid SDR CW/SSB/DATA

Kenwood TH-D75A VHF/UHF/220 Digital HT

Comet CAA-500 Mark II Antenna Analyzer – 500 MHz

Donated by: The DX Store & Comet Antennas



Raffle Tickets \$1 each or 6 for \$5 – No need to be present to win Grand Prizes

Check for updates and additional details: www.prescotthamfest.org

Contact: Hamfest Chairperson – Byron Wilkinson KK7BFL (hamfest@w7yrc.org)

**NO GUNS, DRUGS, ALCOHOL, SMOKING, VAPING, OR FIREWORKS
ONLY LEASHED ANIMALS ARE PERMITTED**



Northern Arizona DX Association

Presents the

FLAGSTAFF HAMFEST

Sponsored by The Amateur Radio Council of Arizona

NEW DATE & PLACE

JUNE 14, 2025

COCONINO HIGH SCHOOL

NO STAIRS, NO ELEVATORS ALL ONE LEVEL

2801 N. ISABEL STREET FLAGSTAFF. AZ 86004

PRIZES GALORE-ICOM 7610/ICOM 705/COMET ANALYZER

DON'T HAVE TO BE PRESENT TO WIN

BRING CASH NO ATM...ADMISSION IS A \$5.00 DONATION...BRING CASH NO ATM

HAMFEST HOURS 07:00-15:00

TAILGATERS \$10.00 PER SPACE.....INSIDE VENDORS \$20.00 PER 10' X 12' SPACE

INSIDE VENDOR SETUP FRIDAY 10:00 – 4:00/TAILGATERS SETUP 06:00-07:00 SATURDAY

LICENSE TESTING STARTING AT 10:00

SEMINARS

<https://www.flagstaffhamfest.org/>

COME EXPERIENCE THE BEST 1 DAY HAMFEST IN ARIZONA!

Amateur Radio Field Day

MARCA – W7MOT

Woods Canyon, June 27-29, 2025

Activities at Woods Canyon:

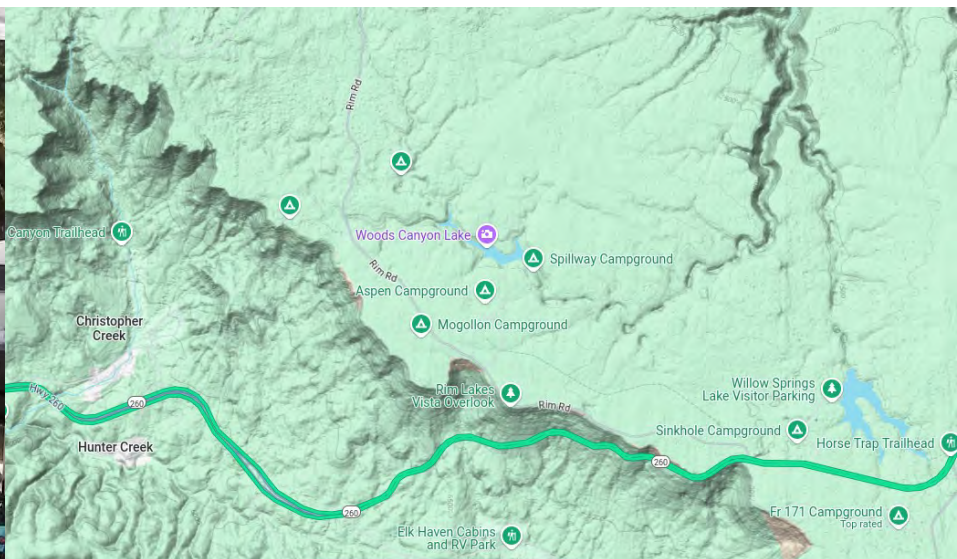
- Fishing, Paddling, Boat Rentals, Hiking, Camping, Biking, Store and Marina

Amateur Radio Activities:

- Meet new and old hams
- Group coordinated W7MOT operation
- Check out HF radio stations
- Operate SSB Voice, FT8 digital or CW
- Help Log contacts
- Setup Antennas across the trees
- Satellite station
- GOTA – Get on the Air Station
- Visitor Table and Check-in

Location and Contact Details:

- <https://w7mot.org/> - MARCA's website
- MARCA has rented the Woods Canyon Group site
- <https://woodscanyonlakeaz.com/>
- take US260 about 30 mi east of Payson look for turnoff before Forest Lakes.
- Consider donation to MARCA: \$15/truck or car, \$50 per trailer or mobile home. Bring as many friends/family members as you like.
- Group breakfast, lunch, dinners planned
- Contact Norm AA700@gmail.com to let us know your plans.



Amateur Radio Promote & Support



Examples



Promote the Amateur Radio hobby. Show YOUR amateur radio callsign on your Arizona Vehicle License Plate.

Support the Amateur Radio hobby. \$17 of the additional annual yearly \$25 cost for an Arizona Amateur Radio Vehicle License Plate goes to fund the following Arizona Amateur Radio activities:

College Scholarships, Youth Programs & Emergency Communications

For more Information go to: <http://www.az-arrrl.org/web/AzPlate.htm>

MCC Electronics

High Tech. Hands On.



Want to *really* learn RF ? Become an Amateur Extra ?

MCC Can help! We are proud to announce that the lab course in Analog RF Communications, **ELE261 – Communication Systems** now focuses on the amateur radio community. The class is taught by amateur extra Mike Childers K7URK, so you know it will be fun and “hands on” -- not like the old boring lecture-only college courses you may remember.



We will have access to MCC’s new Ham Shack for use during the course. And feel free to take advantage of this station outside of class with our club. Serious DX-ing awaits!

This lab class includes lecture instruction and hands-on lab bench experiments. During the semester, you will build a working AM/FM radio and use our lab instrumentation and test equipment to troubleshoot and align

each stage during construction. We will cover the theory of operation of each stage as we proceed with construction. You’ll need a basic knowledge of:

- ✓ Common components, including op-amps & bipolar transistors
- ✓ Basic familiarity with digital multi-meters and oscilloscopes
- ✓ Ability to read/draw basic schematic diagrams & block diagrams
- ✓ Basic thru-hole PC Board soldering skills
- ✓ Basic math skills in high-school level algebra



If you haven’t had any coursework in the above topics, you can still take the class with equivalent skills and experience. Here’s the general class outline (coverage can vary based on the needs of the group):

I. Introductory Topics

- A. Noise
- B. Noise measurement
- C. Information & BW

II. AM-Transmission

- A. Amplitude modulation
- B. AM analysis
- C. AM generation circuits
- D. AM transmitter systems

III. AM-Reception

- A. Receiver characteristics

B. AM detection

- C. Superhet receivers
- D. Automatic gain control
- E. AM receiver systems

IV. FM-Transmission

- A. Angle modulation
- B. FM Analysis
- C. Noise suppression
- D. Direct and indirect FM
- E. PLL FM transmitter
- F. Stereo FM

G. FM transmissions

V. FM-Reception

- A. Block diagram
- B. RF amplifiers
- C. Limiters
- D. Discriminators
- E. PLL receivers
- F. Stereo demodulation
- G. FM receivers

VI. Digital Comm.

- A. Coding

B. Pulse modulation

- C. Pulse-code modulation
- D. Radio telemetry

VII. Transmission Lines

- A. Types
- B. Propagation down a line
- C. Non-resonant / resonant
- D. Standing wave ratio
- E. Applications

The course meets two nights each week, Mondays and Wednesdays, at 6:30 pm on the MCC campus. Sign up here:

<https://www.mesacc.edu/enroll>



**MESA
COMMUNITY COLLEGE**

A MARICOPA COMMUNITY COLLEGE

The Maricopa County Community College District (MCCCD) is an EEO/AA institution and an equal opportunity employer of protected veterans and individuals with disabilities. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity,



**MARICOPA
COMMUNITY COLLEGES**

age, or national origin. A lack of English language skills will not be a barrier to admission and participation in the career and technical education programs of the District. MCCCD does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs or activities. For Title IX/504 concerns, call the following number to reach the appointed coordinator: (480) 731-8499. For additional information, as well as a listing of all coordinators within the Maricopa College system, visit <http://www.maricopa.edu/non-discrimination>.

The Morse Code Characters

(● means a short beep, & — is a longer beep)

A: ● —	S: ●●●
B: — ●●●	T: —
C: — ● — ●	U: ●● —
D: — ●●	V: ●●● —
E: ●	W: ● — —
F: ●● — ●	X: — ●● —
G: — — ●	Y: — ● — —
H: ●●●●	Z: — — ●●
I: ●●	1: ● — — — —
J: ● — — —	2: ●● — — —
K: — ● —	3: ●●● — —
L: ● — ●●	4: ●●●● —
M: — —	5: ●●●●●
N: — ●	6: — ●●●●
O: — — —	7: — — ●●●
P: ● — — ●	8: — — — ●●
Q: — — ● —	9: — — — — ●
R: ● — ●	0: — — — — —

Punctuation and Procedural Signs

/ (slash): — ●● — ●
, (comma): — — ●● — —
. (period): ● — ● — ● —
? (question mark): ●● — — ●●
BT (pause): — ●●● —
AR (end of message): ● — ● — ●
SK (end of contact): ●●● — ● —

Do I Need To Know Morse Code?

You do not need to know Morse Code for any ham license. The three classes of licenses are Technician, General, & Extra. You must pass a multiple choice exam in order to gain your license. The higher the class of license, the more operating privileges you gain. Many people stop at the first license, and that's okay, too. People of all ages have passed the test, from 8 years old on up.

What Is Explorer Post 599?

Exploring is a division of the Boy Scouts of America serving teen boys and girls between the ages of 14 and 21 years old. Each Explorer Post centers its activities around a specialty, usually a career oriented program.

Explorer Post 599 is the Phoenix-area's Ham Radio specialty post. All of our activities center around Ham Radio or high technology education. We meet weekly in a workshop-type meeting, working on projects or learning about an aspect of radio communications. We hold monthly business meetings with a program of interest to the members.

Post 599 has a dedicated group of adults who serve as mentors to the youth members. The adults really enjoy working with the youth, and believe that young people really need Ham Radio. The adults include radio engineers, computer engineers, technicians, and non-technical people, all licensed Ham operators.

Although Exploring is for 14 to 20-year-olds, youth younger than 14 years old are welcomed as associate members and can participate in all activities.

In addition to the weekly meetings, the Post holds at least monthly regular activities, including camping, tours, special training classes, demonstrations of Ham Radio, and providing communications for public service events. All youth and adult members are encouraged to participate in all events.

Explorer Post 599 will form subgroups in various areas of the Phoenix metro area if interest is present. We'll do what it takes to bring Ham Radio to Arizona's youth.

For More Information

Contact American Radio Relay League
The National Organization of Amateur Radio
www.arrl.org

Contact Explorer Post 599

Advisor: Tom Sharp WA9OXY (602) 569-6512
Assoc. Advisor: Scott Cowling WA2DFI (480) 929-9529
Committee Chair: Steve Kafka WB7QGJ (480) 895-6201

Look for us:

On-the-air on these Phoenix Repeaters: Just Call "W7BSA"
147.02+(162.2) 146.66-(162.2) 448.80-(100)
www.post599.org

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Ham Radio

A hobby for everyone
A hobby for life
A hobby that serves

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Phonetics
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The Morse Code
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EXPLORER POST 599

AMATEUR RADIO CLUB

The Ham Radio Club For Teens

What Is Amateur Radio?

Amateur Radio is a radio service authorized by the US Federal Communications Commission (FCC) and other similar agencies in other countries. Amateur Radio is also known as Ham Radio.

To operate a Ham Radio, you have to be licensed by the FCC. To get your first license, you must pass a 35 question test (getting 26 right). This test has multiple choice answers and all allowable questions are published so you can study them. There are excellent study books available that teach you every thing you need to know, plus internet-based practice tests to build your proficiency. Many Ham Radio clubs have classes or study groups to help you pass.

Ham Radio is used to talk with other Hams across the nation and around the world. But it is so much more than just talking. Here are just a few of the many aspects of Ham Radio:

- Experimentation with electronics
- Connect computer together with radio
- Talk to astronauts in the Space Station
- Send and Receive Television Video and Pictures
- Track each other using GPS Receivers
- Communicate using morse code
- Make local telephone calls using radio
- Provide disaster communications
- Send weather balloons into the upper atmosphere
- Use ham radio satellites
- Use mobile, hand-held, and base station radios
- Talk with your friends who are hams
- Keep track of your ham family members
- Meet new friends on-the-air
- Field day operations
- Plenty of contests
- Call for help almost anywhere
- Build radios, antennas, and accessories
- See how many different people you can talk to

Ham Radio is more than a telephone, a CB, or FRS radio. It is fun, getting involved in any aspect that interests you. You can use Ham Radio anywhere, while traveling, camping, driving around town, anytime, any place. Ham Radio builds skills, not only in electronics, but also talking with others, helping others, learning geography, science, math, or whatever direction you take it in. For many, becoming Hams at a young age influenced them to become engineers and scientists.

Amateur Radio Privileges

When you pass your Ham Radio test and receive your license, the FCC gives you the authority to operate radios in certain frequency bands. Shortwave bands allow you to talk around the world. VHF/UHF bands allow line of sight range, which is extended to statewide/region-wide/worldwide through repeaters linked together by radio and the Internet. Hams are experimenting with Microwave bands, seeing how these new frequencies act, how far can contacts be made, and what types of uses can be made of them, such as computer linking, spread-spectrum, and satellite communications.

The Ham Radio Frequencies

Shortwave Bands

160 Meters	1.8-2.0 MHz
80 Meters	3.5-4.0 MHz
40 Meters	7.0-7.3 MHz
30 Meters	10.1-10.15 MHz
20 Meters	14.0-14.35 MHz
17 Meters	18.068-18.168 MHz
15 Meters	21.0-21.45 MHz
12 Meters	24.89-24.99 MHz
10 Meters	28-29.7 MHz

VHF Bands

6 Meters	50-54 MHz
2 Meters	144-148 MHz
1.25 Meters	222-225 MHz

UHF Bands

70 Centimeters	420-450 MHz
33 Centimeters	902-928 MHz

Microwave Bands

23 Centimeters	1240-1300 MHz
	2300-2310 MHz
	2390-2450 MHz
	3300-3500 MHz
	5650-5925 MHz
	10.00-10.50 GHz
	24.0-24.25 GHz
	47.0-47.2 GHz
	75.5-81.0 GHz
	119.98-120.02 GHz
	142.0-149.0 GHz
	241.0-250.0 GHz
	All above 300 GHz

Look at all those frequencies! Compare it with the 40 channels at 27-MHz in Citizens Band (CB), or the 14 channels in the 460-MHz Family Radio Service (FRS) band

A Special Language

As in any specialty, Hams have their own special lingo. These abbreviations are especially useful in Morse Code to reduce the number of letters that need to be sent.

Q-Signals

QRM	Man made interference
QRN	Natural interference (Static)
QRP	Low power
QRZ	Who is calling me?
QSB	Your signals are fading.
QSL	Acknowledge receipt, "Okay", or a contact card
QTH	Location
73	Best wishes
88	Hugs and kisses (just for fun)
YL	Young Lady (any female operator)
OM	Old Man (any male operator)

Amateur Radio Phonetics

Phonetics allow spelling a word or a callsign with words starting in the letter. It prevents confusion when letters sound similar, like "F," "S," and "X." For example: "My name is Bill, spelled **Bravo India Lima Lima**"

A LPHA	J ULIETT	S IERRA
B RAVO	K ILO	T ANGO
C HARLIE	L IMA	U NIFORM
D ELTA	M IKE	V ICTOR
E CHO	N OVEMBER	W HISKEY
F OXTROT	O SCAR	X -RAY
G OLF	P APA	Y ANKEE
H OTEL	Q UEBEC	Z ULU
I NDLA	R OMEO	

R-R-T Characteristics	Readability R	Strength S	Tone T (Hz)
1	Unreadable	Faint signals, barely perceptible	Distorted or irregular, very rough and broad
2	Barely readable, occasional words distinguishable	Very weak signals	Very rough and irregular
3	Readable with considerable difficulty	Weak signals	Rough or irregular, filtered out
4	Readable with difficulty	Fair signals	Rough copy, some trace of filtering
5	Partly readable	Fairly good signals	Filtered copies and distortion noticeable
6	R/A	Good signals	Filtered copy, definite trace of ripple modulation
7	R/A	Moderately strong signals	Mostly pure tone, trace of ripple modulation
8	R/A	Strong signals	Near perfect tone, slight trace of modulation
9	R/A	Extremely strong signals	Perfect tone, no trace of ripple or modulation of any kind