



# “HARKFEST” Tailgate Hamfest Nov. 2, 2019 (Saturday) 8 A.M. – Noon

Hassayampa Amateur Radio Klub (HARK)

North Ranch Escapees RV Park, 30625 S. Hwy 89, Congress, AZ 85332  
(GPS: 34 06.292, 112 49.880), Mile Marker 263.8

Talk in on 146.580 (simplex) or on 146.620 repeater (pl. 162.2).



- ◆ ARRL Card Checking
- ◆ Free Admission
- ◆ Free Tailgating & Vendor Sites  
Must pre-register via email to: [bridges.slt@gmail.com](mailto:bridges.slt@gmail.com)
- ◆ Overnight Full RV hook-up or dry camping  
North Ranch Escapees ([northranch@escapees.com](mailto:northranch@escapees.com))
- ◆ Free Ham Radio License Testing via LARC VE Testing  
Must pre-register via email to: [cecarter39@yahoo.com](mailto:cecarter39@yahoo.com)



Plus... at North Ranch Activity Center:

- ◆ Arts & Crafts Show (9 A.M. – 2 P.M.)
- ◆ Hot Lunch Available

## HARKFEST MAIN PRIZES & LOTS OF DOOR PRIZES:

Grand Prize – Yaesu FT-100DR

Second Prize – Handheld 2m/440 Radio

Third Prize – Battery (donated by Bioenno Power)

Drawing at Noon for Grand, Second & Third Prizes

Door Prizes drawn throughout the morning

**Tickets: \$1 each, 6 for \$5, 15 for \$10**

*Hassayampa Amateur Radio Klub (HARK) – Web Site: [harkaz.org](http://harkaz.org)*

*Questions? Please send email to Duane Grooms, KD0KYK, at [djgrooms@yahoo.com](mailto:djgrooms@yahoo.com)*

# ORO VALLEY ARC



# HAMFEST

**Great Fun!**

**Great Raffle Prizes!**

**Indoor VE Session!**

Pre-registration for VE testing preferred  
but not required.

Email [licensing@tucsonhamradio.org](mailto:licensing@tucsonhamradio.org)

**Interesting Seminars!**

See website for Seminar Schedule

**ARRL Booth with Award Card  
Checking and Logbook of the  
World assistance!**

**Food Truck for Breakfast and  
Lunch**

*An ARRL Sanctioned Event*

*Presented by the*

*Oro Valley Amateur Radio Club*

**November 9, 2019**

**Marana Middle School  
11285 West Grier Road  
Marana Arizona 85653**

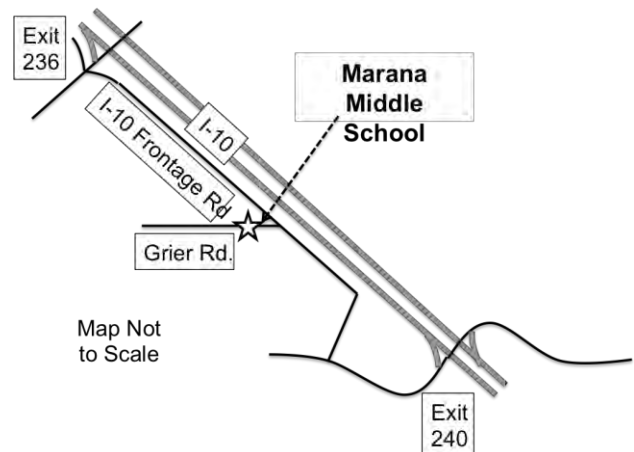
Gates open at 7:00 AM (5:00am for  
sellers) and close at 1:00 PM

Admission: \$5.00 includes a bottle of water  
(Children under 12 free with a paid adult)

Students free with any Arizona school ID

Sellers: \$10 per space (includes the seller)

Contact [hamfest@tucsonhamradio.org](mailto:hamfest@tucsonhamradio.org) for  
more information



[www.tucsonhamradio.org](http://www.tucsonhamradio.org)

Pick "Our Hamfest" from Menu

Superstition ARC Club Repeaters  
147.120 (+) 162.2 Hz  
448.275 (-) 100.0 Hz  
449.600 (-) 100.0 Hz  
KB7KWK-L EchoLink



## SuperFest 2019

Saturday  
December 7th, 2019  
7:30AM to 4:00pm

Mesa Community College  
Mesa, Arizona

Superstition ARC SuperFest



Is an ARRL and ARCA  
Sponsored Event

### GRAND PRIZE RAFFLE

- First Prize: Yaesu FT-991A All-Band, Multimode
- Second Prize: Icom IC-7300 HF/50MHz Transceiver
- Third Prize: Yaesu FT-891 HF+50 MHz All Mode Mobile Transceiver.

### Grand Prize Tickets

- Tickets \$2.00 each
- Presale Tickets Online @ [https://www.superstitionsuperfest.org/sf\\_tickets.shtml](https://www.superstitionsuperfest.org/sf_tickets.shtml)  
\*\* Need not be present to win \*\*

### HOURLY PRIZE RAFFLE

- Tickets \$1.00 each
- Available on the day of the event only, \*\* Must be present to win \*\*

### Door Prize Drawing!

- Prize: Yaesu FT-70DR C4FM FDMA / FM 144/430 MHz Dual Band Handheld
- You will receive One Door Prize ticket with each paid admission.
- The drawing for this prize will take place after the Grand Prize Drawing.
- \*\* You Must Be Present To Win \*\*

### ACTIVITIES

- VE Testing - \$15.00 Fee, Registration 8:00 - 9:00, Testing Starts @ 9:00AM
  - Participants Must Pre-Register for testing at the times listed
  - Bring The Appropriate Information With You For Testing, Information May Be Found On The ARRL Web Site @ <http://www.arrl.org/what-to-bring-to-an-exam-session>
  - For Additional Information or Questions Contact Fred Bollinger, AB7JF @ 480-242-8606
  - VE Testing Sponsored By: MCC Amateur Radio Club will take place in Building **TC-50 - classroom 415**
  - Presentations Sponsored By: MCC Amateur Radio Club and will take place in **Building TC 50- classroom 414**
- ARRL Card Checking Available
- Special Events Station - K7A Commemorating The USS Arizona
- Gota Station - Make Contacts Around The World With An Experienced Extra Class Operator
- Fox Hunt, Food Vendor and Drinks Available
- Live sixties and seventies music by John J. - KD8PC
- The ARCA meeting will be held in building **TC-50** and classroom **415** from 12:00 to 1:00 pm

### Tailgaters/Commercial Vendors

- Tailgate - \$10.00 includes 2 spaces and 2 paid admissions, set up time 6:00 am Saturday morning
- Commercial Vendors, Please contact our Committee Chairman at: [chairman@superstitionsuperfest.org](mailto:chairman@superstitionsuperfest.org) for more information on setting up.

### Admission

- \$5.00 per person, one door prize ticket with each paid admission. Children 12 and under are free

The Superstition Amateur Radio Club, is a 501(C) 3 Non-Profit Organization

# Thunderbird Hamfest 2020



**Saturday, January 11, 2020 8:00 AM to Noon**

Thunderbird Amateur Radio Club

A 501 (C) 3 Non-Profit Organization

An ARRL Sanctioned and ARCA Co-Sponsored Event

This Event will occur Cold, Rain, Wind or Shine. Come prepared

Glendale Nazarene Church

5902 W. Cactus Road

Glendale, AZ 85304

## General Admission

\$5.00 per person, one door prize ticket, kids under 12 Free

## Tailgater/Commercial Vendors

\$10.00 per parking spot

Setup Friday after 5:00 PM      Saturday after 6:00 AM

Vendors get a total of 2 admissions with their paid spot(s). Does not include entry in to the Grand Prize Drawing

## Grand Prizes Drawing Noon

We are working on **BIGGER** and **BETTER** prizes than last year

\*\*Need not to be present to win\*\* - Raffles are ARCA Sponsored

## Door Prize Drawing 11:00 AM

Info coming soon!

\*\*Need not to be present to win\*\*

## Hourly Prizes Drawing @ 9:00 AM & 10:00 AM

## Prize Tickets

One prize ticket with each paid admission

Additional Tickets: \$2.00 ea. 3 for \$5.00, 6 for \$10.00, 12 for \$20.00

Before Event Tickets: TBRAC monthly meeting or other events

Talk-in Repeater: 147.040 MHz PL 162.2

On-Site Announcements Frequency: 146.56 MHz Simplex

No Firearms, Alcohol, or Drugs Permitted

Snacks and beverages will be available for purchase on site

Seminars covering Amateur Radio subjects

ARRL QSL Card Checking

Laurel VE Testing 10:00AM to 11:00AM

Subject to change, for latest information check <http://www.tbirdfest.org/>

Questions email [hamfest@w7tbc.org](mailto:hamfest@w7tbc.org)

# 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>

## 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](http://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](http://www.post599.org)

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# Ham Radio

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

## Contents:

*What Is Amateur Radio?*  
*Amateur Radio Privileges*  
*A Special Language:*  
*Q-Signals*  
*Phonetics*  
*Signal Reports*  
*The Morse Code*  
*What is Explorer Post 599?*



**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

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

<b>A</b> LPHA	<b>J</b> ULIETT	<b>S</b> IERRA
<b>B</b> RAVO	<b>K</b> ILO	<b>T</b> ANGO
<b>C</b> HARLIE	<b>L</b> IMA	<b>U</b> NIFORM
<b>D</b> ELTA	<b>M</b> IKE	<b>V</b> ICTOR
<b>E</b> CHO	<b>N</b> OVEMBER	<b>W</b> HISKEY
<b>F</b> OXTROT	<b>O</b> SCAR	<b>X</b> -RAY
<b>G</b> OLF	<b>P</b> APA	<b>Y</b> ANKEE
<b>H</b> OTEL	<b>Q</b> UEBEC	<b>Z</b> ULU
<b>I</b> NDLA	<b>R</b> 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 but not filtered
4	Readable with difficulty	Fair signals	Rough copy, some trace of filtering
5	Partly readable	Fairly good signals	Filtered copies and/or irregular modulation
6	N/A	Good signals	Filtered copy, definite trace of ripple modulation
7	N/A	Moderately strong signals	Mostly pure tone, trace of ripple modulation
8	N/A	Strong signals	Near perfect tone, slight trace of modulation
9	N/A	Extremely strong signals	Perfect tone, no trace of ripple or modulation of any kind