2018 Merit Badge Jamboree

Details

The Colonial District 2018 Merit Badge Jamboree will be held on Saturday, February 3 from 9:00 AM to 3:30 PM at Bishop Ireton High School, 201 Cambridge Rd, Alexandria VA 22301. The cost is $20 per scout, which includes lunch and a patch.

This year, registration will be done online by scout, rather than using a spreadsheet by troop. Registration is on the Council website.

There are three types of offerings:

1. Half-Day Badges—these badges are offered in the AM (9:30-Noon) and/or the PM (1-3:30).
2. Lunch-Time Badges—these badges require all work to be done in advance; counselors will be available at lunch time to review the work and sign off.
3. Full-Day Badges—only Search & Rescue is offered as a full-day badge. It requires scouts to attend both the AM and PM session to complete the badge.

All courses have enrollment limits to ensure a quality experience for each Scout who participates.

The limits and schedules are listed below along with the requirements that Scouts must complete before arriving at the Jamboree.

Prerequisites

Scouts must complete all prerequisites BEFORE arriving on Saturday, February 4 at the Merit Badge Jamboree.

For EVERY badge, all counselors strongly recommend that scouts read the Merit Badge Pamphlet. Pamphlets can be acquired from the Scout Shop at 5234 Port Royal Rd, Springfield, VA 22151, online at ScoutStuff.org, or, your Troop’s library may have a copy. Reading the pamphlet will GREATLY enhance the scout’s learning experience. Scouts who do not read the pamphlet will be at a disadvantage in the Merit Badge classroom.

Other prerequisites are listed below in alphabetical order by badge. Any communication direct from your Merit Badge Counselor takes precedence over what is in this document.

*Aviation
Mark Grapin, mgrapin@aol.com; AM only; Limit 20

Read the Merit Badge Book.
Scouts must complete ONE of 4a, b, or c before attending class. Requirements 1, 2, and 3 will be completed in class.

*Chess*
Keith Maly; malyckjs@gmail.com; AM and PM; Limit: 20

Read the Merit Badge Book

*Coin Collecting & Collections (Earn 2 Merit Badges in One Session)*
Tony Springer, tony.springer@nasa.gov; AM and PM; Limit: 10

Please Read BOTH Merit Badge Books.

For both activities, you do not need to bring your collections but should have suitable photos to describe and explain what is required for the badges.

Coin Collecting—Requirements 6, 7, and 9.

Collections—Requirements 1, 3, and 5.

*Crime Prevention*

*Section 1*
Mark Husband, davidmark.husband@gmail.com; AM only; Limit: 20

Read the Merit Badge Book.

Requirements 2, 6, and 7a or 7b. Bring your notebook (requirement 2) with you to show your counselor and be prepared to discuss requirement 6 and 7a or 7b with your counselor in class.

*Section 2*
Joe Kelly, sjdkelly@comcast.net; PM only: Limit: 20

Read the Merit Badge Book.

Requirements 2 and 6a, and bring to class to show your counselor. Also, you must complete requirement 4 and be prepared to discuss with your counselor what you did.

*Digital Technology*
Nicole Gray, troop1515@gmail.com; AM and PM; Limit: 20
Read the Merit Badge Book

Requirements 1, 5, 6, and 9a OR 9b.

*Disability Awareness
P.J. Jurack, pjjurack@fbi.gov; AM and PM; Limit: 20

Read the Merit Badge Book

Requirement 4 (Option A)—either a, b, or d (c will be completed in class).

*Electricity
Paul MacDonald, pmacdonald@metaengineers.com; AM and PM; Limit: 12

Read the Merit Badge Book

Requirements 2, 5, and 8.

*Fingerprinting
Burt Thompson; thompsonnu84@gmail.com; AM and PM; Limit: 20

Read the Merit Badge Book.

*Genealogy
Jay Liddle, layjent@gmail.com; Lunchtime Badge

All requirements are to be completed before the MBJ and put into a notebook to be turned into at registration. You'll meet with the counselor to review your work during lunch.

*Golf
Roger Conrad, rogerscottconrad@gmail.com; PM only; Limit: 20

1. Visit the USGA website "Rules and Decisions" section.

2. Play either one 18-hole round of golf or two 9-hole rounds. Keep score and bring scorecards.

3. Watch at least one of the following golf focused movies: "Caddyshack", "Tin Cup", "The Legend of Bagger Vance" or the golf scene at the beginning of "Goldfinger."

*Indian Lore
Michael Martin, taxpayerrep@comcast.net; PM only; Limit: 20
Read the Merit Badge Book

2. Do two of the following: make an item of clothing; make and decorate an item that a tribe uses; make an Indian dwelling; or visit a museum and write two paragraphs.

**Journalism**
Holly Dougherty; hollydougherty@mtvernon-leechamber.org; Lunchtime Badge

All requirements are to be completed before the MBJ and put into a notebook to be turned into at registration. You'll meet with the counselor to review your work during lunch.

**Law**
Jay Jupiter, jjup@yahoo.com; AM and PM; Limit: 20

Complete the worksheet found here: [http://usscouts.org/mb/worksheets/Law.pdf](http://usscouts.org/mb/worksheets/Law.pdf) (or similar). The requirements which call for discussion (1,2,3,5,8,10, and 11) will be reviewed in the Class and signed off if they are documented in the worksheet.

Scouts are required to complete requirements 4, 6, 7, and 9 prior to attending class in order to complete the merit badge.

**Medicine**
Steve Routt, sroutt@gmail.com; AM and PM; Limit: 20

Read the Merit Badge Book

Requirements 1, 4a, 4b, 6a, 6b, 7a, 8b, and 10 (requires prior approval).

Be prepared to discuss the other requirements at the Jamboree. Counselor will have equipment for blood pressure, pulse, and specialty practice.

**Oceanography**
Eleanor Cambridge, Cambridge.eleanor@yahoo.com; PM only; Limit 20.

Read the Merit Badge Book.

Complete requirements 4, 7, and 8 prior to class

**Painting**
Eleanor Cambridge, Cambridge.eleanor@yahoo.com; AM Only; Limit 20
Read the Merit Badge Book.

Complete requirements 3, 4, and 8 prior to class

**Photography**
Brenda Hankins, bmhankins@gmail.com; AM and PM; Limit: 10

Complete Requirement 4—e-mail electronic presentation by Thursday, Feb. 1, or bring it on USB Drive, or bring poster board mounted presentation.

Bring Camera

**Public Speaking**
Raighne Delaney, rdelaney@beankinney.com; PM Only; Limit: 6

Read the Merit Badge Book.

Prepare for Requirements 1, 2, and 4.

Requirement 3 and 5 will be covered in class.

**Radio**
Donovan Lewis, Sr, Kl4D@arrl.net; AM and PM; Limit: 10

Read the Merit Badge Book

Scouts should bring a copy of their Radio Merit Badge workbook to use as a guide for classroom discussion, and for taking notes for better understanding of presented material based on workbook preparation prior to class.

**In-Class Activities:** All requirement topics will be presented and discussed in class using PowerPoint Presentations. Requirements 7 and 9a2 activities will take place in class.

**Prerequisites:** In preparation for this class, Scouts should read a copy of the Radio Merit Badge Pamphlet and fill-in the Radio Merit Badge workbook located at http://meritbadge.org/wiki/images/1/10/Radio.pdf. The following links also have all of the information needed for filling in the workbook.

- http://www.hamradioschool.com/media/bsa_radio_merit_badge/bsa_radio_merit_badge.pdf
- http://k2gw.tripod.com/onlineradiomeritbadge/
Workbook requirement in bold and italicized type require special attention for completion prior to class.

Radio MB Requirements:

1. Explain what radio is. Then discuss the following:
   a. The differences between broadcast radio and hobby radio
   b. The differences between broadcasting and two-way communications
   c. Radio station call signs and how they are used in broadcast radio and amateur radio
   d. The phonetic alphabet and how it is used to communicate clearly

2. Do the following:
   a. Sketch a diagram showing how radio waves travel locally and around the world. Explain how the broadcast radio stations, WWV and WWVH can be used to help determine what you will hear when you listen to a shortwave radio.
   b. Explain the difference between a DX and a local station. Discuss what the Federal Communication Commission (FCC) does and how it is different from the International Telecommunication Union.

3. Do the following:
   a. Draw a chart of the electromagnetic spectrum covering 100 kilohertz (kHz) to 1,000 megahertz (MHz).
   b. Label the MF, HF, VHF, UHF, and microwave portions of the spectrum on your diagram.
   c. Locate on your chart at least eight radio services such as AM and FM commercial broadcast, citizens band (CB), television, amateur radio (at least four amateur radio bands), and public service (police and fire).

4. Explain how radio waves carry information. Include in your explanation: transceiver, transmitter, receiver, amplifier, and antenna.

5. Do the following:
   a. Explain the differences between a block diagram and a schematic diagram.
   b. Draw a block diagram for a radio station that includes a transceiver, amplifier, microphone, antenna, and feed line.
   c. Explain the differences between an open circuit a closed circuit, and a short circuit.
d. Draw eight schematic symbols. Explain what three of the represented parts do. Find three electrical components to match to three of these symbols.

6. Explain the safety precautions for working with radio gear, including the concept of grounding for direct current circuits, power outlets, and antenna systems.

7. Visit a radio installation (an amateur radio station, broadcast station, or public communications center, for example) approved in advance by your counselor. Discuss what types of equipment you saw in use, how it was used, what types of licenses are required to operate and maintain the equipment, and the purpose of the station.

8. Find out about three career opportunities in radio. Pick one and find out the education, training, and experience required for this profession. Discuss this with your counselor, and explain why this profession might interest you.

9. Do ONE of the following: (a ... requirements 9b and 9c will not be options in this class)

a. AMATEUR RADIO

1) Tell why the FCC has an amateur radio service. Describe some of the activities that amateur radio operators can do on the air, once they have earned an amateur radio license.

2) Using proper call signs, Q signals, and abbreviations, carry on a 10 minute real or simulated radio contact using voice, Morse Code, or digital mode. (Licensed amateur radio operators may substitute five QSL cards as evidence of contacts with amateur radio operators from at least three different call districts.) Properly log the real or simulated ham radio contact and record the signal report.

3) Explain at least five Q signals or amateur radio terms you hear while listening.

4) Explain some of the differences between the Technician, General, and Extra Class license requirements and privileges. Explain who administers amateur radio exams.

5) Explain how you would make an emergency call on voice or Morse code.

6) Explain the differences between handheld transceivers and home "base" transceivers. Explain the uses of mobile amateur radio transceivers and amateur radio repeaters.

*Reading
Chris Marston; chris.marston@gmail.com; Lunch-time Badge

All requirements are to be completed before the MBJ and put into a notebook to be turned into at registration. You'll meet with the counselor to review your work during lunch.
**Scholarship**
Vince Kiernan, [kiernan@nasw.org](mailto:kiernan@nasw.org); Lunch-time Badge

All requirements are to be completed before the MBJ and put into a notebook to be turned into at registration. You'll meet with the counselor to review your work during lunch.

Scouts must obtain a note from the school principal or designated school official addressing behavior, leadership and service. Notes from the teacher on a report card do not meet this requirement.

**Scouting Heritage**
Rick Pitterle, [rpitterle@comcast.net](mailto:rpitterle@comcast.net), AM, Limit: 16.

Read the Merit Badge Book

Complete 2a and 2b, 4b, 5, 6 (Bring the collection or photos of the collection prepared to show to class), and 8.

**Search and Rescue**
Bruce Defibaugh, bruce.defibaugh@verizon.net; Full Day Badge—Requires attendance for both AM and PM sessions; Limit: 20

Read the Merit Badge Book. Be prepared to discuss Requirements 1, 2, 3, 6, 7, and 9.

Research Requirements 4 and 10.

Complete Requirement 5, training for ICS-100. Go to [http://training.fema.gov/EMIWeb/IS/is100b.asp](http://training.fema.gov/EMIWeb/IS/is100b.asp) and on the right side is the button for Interactive Web based course. Print the certificate and bring to class.

Please bring any of the following that you have available (do not go out and buy for the class, only if you have it available): Watch, Compass, GPS (UTM Capable), FRS/GMRS Radio, Full Water Bottle, Pen and paper.

**Traffic Safety**
Wally Erck, [wally.erick@cox.net](mailto:wally.erick@cox.net); AM and PM; Limit: 20

Read Merit Badge Book

**Weather**
Mark Grapin, [mgrapin@aol.com](mailto:mgrapin@aol.com); PM Only; Limit: 10

Read Merit Badge Book
Bring completed requirements 3 and 6 to class with you to discuss with your counselor. Either 9a or 9b must be completed prior to class. Come prepared for requirement 10a—this will be done in class.