

CAMP CROOKED CREEK

SEARCH & RESCUE HIGH ADVENTURE PROGRAM



The intent of introducing the Search & Rescue program to Camp Crooked Creek is not just to earn another Merit Badge, but to introduce older Scouts to the possibility of a career and or college degree in continuation of their service to their communities & Nation. Each year the numbers of Americans and visiting tourists who go out into the wilderness to explore, hunt, camp, etc increases exponentially and as such so does the risk and possibility of such individuals to become lost and or injured while enjoying what nature has to provide. This is where trained Scouts can become a great asset to State and County Search & Rescue Teams, by providing assistance as Scouts often do in times of emergency or disaster.

During a week of Summer Camp at Camp Crooked Creek older Scouts age 14+ will not only earn the SAR merit badge, but also be exposed to advanced techniques of Search & Rescue used by various agencies across the United States culminating on Friday with both a Day & Night Search & Rescue operation to evaluate what the Scouts have learned over the previous 4 days. The CCC HA SAR program is an ALL-DAY event, however Scouts WILL be released back to their Units once class has convened for the day with the exception of Friday when those participating will be expected to attend the Night Mission for evaluation.

NOTE: Due to the seriousness of the material content Scouts will be exposed to, the class size limit each week will be limited to 18 total & may require parental consent forms to participate.

PRE-REQUISITES:

The following pre-requisite merit badges will allow Scouts to focus on new material rather than having to review in depth information from merit badges learned previously as the Search & Rescue course is an extension / continuation of that material.

- First Aid Merit Badge
- Emergency Preparedness Merit Badge
- Orienteering Merit Badge

NOTE: In addition, Scouts having earned the following merit badges will find material covered during the SAR course somewhat easier to understand, but these are NOT required. Signs, Signals, & Codes / Wilderness Survival / & Pioneering. AGAIN, although NOT required, these topics contain much valuable resource information to assist the Scouts participating in the CCC HA SAR course.

NOTE: ALL Scouts taking the CCC HA SAR course will be required to take the online training for ICS-100 (Introduction to Incident Command System). This meets the SAR MB requirement #5. This will require parental permission to go online. Be sure to print out and bring the certificate with you to camp to show your counselor!

NOTE: SAR Merit Badge requirements #8A through 8D & #9 WILL be worked on together as a Team effort.

Q: Is search and rescue a career?

A: The best bet for those interested in frequent search and rescue work is to go into a field commonly called upon for missions and volunteer to be trained and placed on call. Careers in law enforcement, firefighting, national park services, FEMA and the military are all organizations frequently involved in SAR.

Q: How does one receive specialized training or a degree in SAR?

A: After hurricane Katrina in 2005, many colleges & universities today offer degrees in Emergency Response Management. Otherwise nearly every branch of the United States Armed Forces, specifically the Coast Guard & US Air Force specialize in SAR operations. Most states (even down to the County level of government) also have primarily volunteer positions available for local SAR teams.

Becoming a search and rescue, or SAR, volunteer can add meaning and adrenaline to your favorite outdoor activities.

- 1. Choose a Specialty. All search and rescue volunteers have a specialty which makes them more suited towards some operations. ...**
- 2. Get in Shape. ...**
- 3. Get Certified. ...**
- 4. Find a Group. ...**
- 5. Stay Qualified.**

DAY 1 (Monday): Terminology for SAR operations (Discussion)

- Determine the difference between SEARCH and RESCUE (see page 9 SAR MB pamphlet)**
- FEMA = Federal Emergency Management Agency**
- NASAR = National Association for Search & Rescue**
- ICS = Incident Command System**
- IC = Incident Commander**
- LKP = Last Known Point**
- PLS = Place Last Seen**
- SAR = Search & Rescue**
- IAP = Incident Action Plan**
- HASTY Team = First Team deployed to search quickly & accurately for clues to subject whereabouts.**
- Active Search = Teams on the ground searching for subject**
- Passive Search = Teams stationary on high ground looking for signs of subject such as campfire smoke.**
- LAST = Locate, Access, Stabilize, Transport**
- Subject = Not Casualty or Victim until located and medical condition established**

- **Triage / Trauma Classification**
 - **Urgent = Life or Death / Loss of Limb or Eyesight**
 - **Immediate = Broken bones, other severe injuries**
 - **Priority = Controlled bleeding, debilitating injuries**
 - **Routine = Does not require immediate medical care, minor injuries**

- **SPECIAL SAR Environs (Discussion)**
 - **Urban Type I, II, & III (see SAR mb pg 29 – 31)**
 - **Water (see SAR mb pg 32)**
 - **Snow (see SAR mb pg 33)**
 - **Underground (Caves & Tunnels etc)**
 - **Forest**
 - **Mountains**
 - **Desert**

- **Ready Pack (Packing list)**
 - **See Annex E**

- **Staying found. (See SAR mb pg 39 & 40) (Discussion)**

DAY 2 (Tuesday) Review of First Aid, Orienteering, & Signs, Signals & Codes skills.

- **Advanced Wilderness First Aid**
 - **Recognize & Treat common injuries found during SAR operations to include the following:**
 - **Broken arm / leg / ribs / neck / back**
 - **Sprains**
 - **Severe bleeding**
 - **Internal injuries**
 - **Head / Facial Injuries**
 - **Snake bite**
 - **Blisters**
 - **Hot weather injuries**
 - **Cold Weather injuries**
 - **Shock**
 - **Dehydration**
 - **Misc Illnesses**
 - **Use a Backboard, litter, basket litter**
 - **Transport casualty over rough terrain using the following methods:**
 - **Litter carry**
 - **Two-man assist**
 - **Fireman's Carry**
 - **Four-Hand Seated Carry**
 - **Improvised Litter**

- Travois litter
 - 9-line MEDEVAC request
- **Advanced Orienteering skills**
 - Determine Back Azmyth
 - Determine location on map using resection / intersection
 - Measure both straight line & curved line distance on a map
 - Convert Magnetic azmyth to grid azmyth
 - Review use of handheld GPS device &/or Cell phone application.
 - Determine location on a UTM map using MGRS / Metric system.
 - Using a Military protractor, determine 4, 6, & 8 digit grid coordinates.
- **Determine / Understand visual & audio signs & signals used.**
 - Communicate with team members via audio signals
 - Communicate with team members via arm & hand signals
 - Communicate with Aircraft via visual signals
 - Phonetic Alphabet familiarity

▪ A = Alpha	B = Bravo	C = Charlie	D = Delta
▪ E = Echo	F = Foxtrot	G = Golf	H = Hotel
▪ I = India	J = Juliet	K = Kilo	L = Lima
▪ M = Mike	N = November	O = Oscar	P = Papa
▪ Q = Quebec	R = Romeo	S = Sierra	T = Tango
▪ U = Uniform	V = Victor	W = Whiskey	X = X-ray
▪ Y = Yankee	Z = Zulu	1 = Won	2 = Too
▪ 3 = Tree	4 = fower	5 = Fife	6 = Six
▪ 7 = Sefen	8 = Aight	9 = Niner	0 = Seero

DAY 3 (Wednesday) Climbing, Rappelling, Use of Aircraft for SAR operations

- **High Angle Rescue / Evacuation**
 - Coordinating with Climbing / COPE director for time slot on tower
 - Demonstrate anchoring for both climbing & rappelling
 - Hoist a mannequin in a basket litter to top of tower
- **Identifying / Marking an area for Aerial evacuation**
 - Improvised marking of a landing zone
 - Bright colored clothing
 - Logs / Rocks
 - Determine size of LZ appropriate to aircraft
 - Determine wind direction for landing aircraft
 - Use of Colored Smoke / Flares (discussion)
- **US Army Blackhawk hoist operation demonstration & Crew tour of the helicopter (??)**

- **Basic Tracking skills**
 - **How to determine handedness of target being tracked**
 - **How to determine approximate height & weight of target being tracked**
 - **Wilderness signs of passage**

DAY 4 (Thursday) Search Tactics

- **SAR HQ Base Camp set up**
 - **SAR Staff**
 - **Incident Commander**
 - **Operations Chief**
 - **Planning Chief**
 - **Logistics Chief**
 - **Safety Officer**
 - **Public Information Officer**
 - **Liaison Officer**
 - **Finance/Administration Chief**
 - **Team Leader x2+**
 - **Assistant Team Leader x2+**
 - **Team Members**
- **Incident Action Plan Forms**
 - **Incident Objectives (ICS 202)**
 - **Organization Assignment List (ICS 203)**
 - **Assignment List (ICS 204)**
 - **Incident Radio Communications Plan (ICS 205)**
 - **Communications List (ICS 205A)**
 - **Medical Plan (ICS 206)**
 - **Incident Organization Chart (ICS 207)**
 - **Safety Message/Plan (ICS 208)**
- **Interview & Investigate (see SAR mb pg 49 to 55)**
 - **Lost Person Profile**
 - **Clue Awareness**
 - **Evidence Preservation**
- **Establish a Confinement Area**
 - **Natural Boundaries**
 - **Man-Made Boundaries**
- **Line Search**
 - **Straight**

- Staggered
- Spiral Search
- Specialized Units (discussion)
 - Scent Dogs
 - Snowmobile / ATV
 - Aerial (Plane or Helicopter)
 - Mounted (Equestrian)
 - River / Lake Patrol
 - CAP (Civil Air Patrol)
 - National Guard
 - US Coast Guard
 - US Air Force PJs (Para-Rescue)

DAY 5 (Friday): Practical Exercise #1 = Day Mission (0830 to 11:30)

- Insert Scenario #1 here!

Practical Exercise #2 = Night Mission (2030 to 2330)

- Insert Scenario #2 here!

ANNEX A: Required Materials for Course

Access to Climbing / Rappelling tower on Wednesday morning

Coordinate with Fort Knox Post Commander for Blackhawk demonstration afternoon

12x cravats

4x wood slats for arm & leg splinting

1x folding / collapsible litter

1x basket litter

20x hard hats

20x blaze orange vests

18x metal whistles

4x metal signal mirrors

1x life-size mannequin

4x small hand held walkie talkies (rechargeable)

24x roll bright colored cloth or plastic engineer tape to mark boundaries

12x USGS or MGRS (preferably) topographical maps of CCC area

4x magnetic compass

1x package 8"x11" overhead projector plastic overlay sheets (transparent)

4x Multi-Colored pack of Alcohol pens

4x Roll Duct Tape

4x Wool Blanket / Space Blanket

1x Backboard

2x 5 gal Gott Coolers

2x Field Tables

2x Folding Chairs

1x 4' Cork Board w/tripod
1x box push pins
1x roll red yarn
5x Handheld GPS
1x Power converter with USB & electrical ports
1x 200' heavy duty extension cord
2x wooden tent poles (6' long at least)
100' ¼" thick manila rope for lashing
2x 12' long wooden poles 4" thick
2x 4' long wooden poles 4" thick
1x Airfield Air Sock (Red)
2x Air to Ground recognition panels (blaze orange & neon pink)
1x "Rescue 8" descender
100' Climbing rope (used is ok)
12x Locking "D" Carabiner
20x Climbing/Rappelling Harness

ANNEX B: SAR MERIT BADGE REQUIREMENTS

1. Do the following:
 - a. Explain to your counselor the hazards you are most likely to encounter while participating in Search & Rescue (SAR) activities, and what you should do to anticipate, help prevent, mitigate, and respond to these hazards.
 - b. Discuss first aid and prevention for the types of injuries or illnesses that could occur while participating in SAR activities including: Snakebites, Dehydration, Shock, Hypothermia, Heat Stroke, Heat Exhaustion, Heat Cramps, Frost Bite, Blisters, and Broken Bones / Sprains.
2. Demonstrate knowledge to stay found and prevent yourself from becoming the subject of a SAR mission.
 - a. How does the "BUDDY SYSTEM" help in staying found & safe?
 - b. How can knowledge of the area and its seasonal weather changes affect your plans?
 - c. Explain how the 10 Essentials are similar to a "READY PACK".
3. Discuss the following with your counselor:
 - a. The Difference between SEARCH and RESCUE.
 - b. The difference between PLS & LKP
 - c. The meaning of the following terms:
 - i. AFRCC
 - ii. IAP
 - iii. ICS
 - iv. Evaluating Search urgency
 - v. Establishing confinement
 - vi. Scent item
 - vii. Area air scent dog
 - viii. Briefing & Debriefing

4. Find out who in your area has authority for SAR and what their responsibilities are. Discuss this with your counselor, and explain the official duties of a SAR Team.
5. Complete the training for ICS-100 (Introduction to Incident Command System) online. Print out the certification of completion and show it to your counselor. Discuss with your counselor how the ICS compares with Scouting's PATROL METHOD.
6. Identify four types of Search & Rescue teams and discuss their use or role with your counselor. Then DO the following:
 - a. Interview a member of one of the teams you have identified above, and learn how this team contributes to a SAR operation. Discuss what you have learned with your counselor.
 - b. Describe the process and safety methods of working around at least two of the specialized SAR teams you identified above.
 - c. Explain the difference between wilderness, urban, and water SARs.
7. Discuss the UTM system, latitude & longitude. Then DO the following:
 - a. Using a 1:24,000 scale USGS topographical map, show that you can identify a location of your choice using UTM coordinates.
 - b. Using a 1:24,000 scale USGS map, ask your counselor to give you a UTM coordinate on the map, then identify that location.
 - c. Show that you can identify YOUR current location using the UTM coordinates on a map, verified with using a hand held GPS.
 - d. Determine a hypothetical PLS & show on the map an area that could be used for containment using natural or man-made boundaries.
8. Choose a hypothetical scenario, either one presented in the merit badge pamphlet or one created by your counselor. Then DO the following:
 - a. Complete an incident objectives form for this scenario.
 - b. Complete an Incident Action Plan to address this scenario
 - c. Discuss with your counselor the behavior of a lost person and how that would impact your IAP.
 - d. After completing 8a-c, discuss the hypothetical scenario with your counselor.
9. Discuss with your counselor the terms HASTY Team & Hasty Search. Then DO the following:
 - a. Plan and carry out a practice Hasty Search. Include the following elements:
 - i. Clue awareness
 - ii. Evidence Preservation
 - iii. Tracking
 - iv. Locating subject via attraction or trail sweep
 - b. When it's over, hold a team debriefing to discuss the hasty search. Discuss problems encountered, successful & unsuccessful tactics used, and ideas for improvement.

10. Find out about three career or volunteer opportunities in SAR. Pick one and find out the education, training, and experience required for this professional or volunteer position. Discuss with your counselor, and explain why this position might interest you.

ANNEX C: Resources

- <https://training.fema.gov/icsresource/icsforms.aspx>
- www.nasar.org/
- See additional resources in the Search & Rescue Merit Badge pamphlet
- Wilderness Survival MB pamphlet
- Pioneering MB pamphlet
- Orienteering MB pamphlet
- First Aid MB pamphlet
- Signs, Signals, & Codes MB pamphlet

ANNEX D: ICS FORMS

- ICS 201 * ICS 202 * ICS 203 * ICS 204 * ICS 205 * ICS 205A
- ICS 206 * ICS 207 * ICS 208 * ICS 208HM * ICS 209 * ICS 210
- ICS 211 * ICS 213 * ICS 213RR * ICS 214 * ICS 215 * ICS 215A
- ICS 217A * ICS 218 * ICS 219 * ICS 260 * ICS FORMS Instruction Booklet

ANNEX E: Packing List for “Ready Pack”

- Sturdy hiking boots
- Leather work gloves (preferably double palmed)
- Hard hat
- Baseball style hat / “Boonie Cap”
- 2 days worth of changes of clothes (long pants, sox, underwear, etc)
- Orange vest
- Water bottle / Camelback
- Notebook & #2 pencil
- Headlamp & Flashlight w/extra batteries & replacement bulbs
- Waterproof Matches / Lighter
- Seasonal weather items
- Wet weather gear
- Daypack / Patrol Pack
- Swiss Army style knife or Multi-tool
- Compass w/5 degree accuracy
- Whistle
- Signal Mirror
- Map of Search area w/plastic overlay
- Alcohol Pen (thin point)
- Means of Communication (radio/cell phone)
- Eye Protection: Sunglasses, Goggles

- 24 hours worth of food & snacks (high caloric)
- Personal First Aid kit
- Survival (space) blanket
- 50' para-cord

NOTE: Clothing should be brightly colored (ie Blaze orange if possible. NO Camouflage!)

The content of this training support package was assembled and/or developed by Michael R. Long, Assistant Scoutmaster (as well as the 100th Eagle Scout) of Troop 1 (Pioneers), Louisville KY.

Mike is a retired (SFC) veteran of the US Army having served a total of 26 years as an Electronic Warfare Morse Code Interceptor, Combat Medical Specialist & Cavalry Scout.

Mike attended Northland College in Ashland WI from 1985 to 1989 with a major study in Outdoor Education with an emphasis on Native American Studies & minor in Geology. While attending college, Mike served as the Team Leader / Coordinator for the Northland College Search & Rescue club which during his tenure conducted numerous practice exercises & 3 real life Search & Rescue operations in the Chequamegon National Forest of Northern Wisconsin.

Currently Mike is a reserve member of the Hardin County Mounted SAR team based out of Elizabethtown, KY.

“I am a little envious, yet thankful, that today’s Scouts have the opportunity to learn SAR techniques through the merit badge system in order to better serve their communities in the future. I only wish this merit badge existed during my Scouting days!” - Mike