

# 2009 ACADEMY SYLLABUS

## DOUGLAS COUNTY SHERIFF SEARCH & RESCUE

### Definitions

FUNSAR = Fundamentals of Search and Rescue  
DSAH = Douglas SAR Academy Handbook

### 1. Introduction to DCSAR

[Monday, 31 August]

Instructors	Time	Topic
Hogan		Moderator
Aymami	25	Intro
*Evans	20	Intro to DCSAR
S. Thomas	5	Intro
N. Nobel	15	Test on FUNSAR Ch 1
Shorty	10	Knots – Review of materials; figure-8 on a bite

### Pre Class Learning Tasks

FUNSAR Ch. 1	Overview of Land Search and Rescue
FUNSAR Ch. 7	SAR Clothing
FUNSAR Ch. 9	The SAR “Ready Pack” and Personal Equipment

### Objectives

By the end of this class you should be able to:

1. Describe the general types of missions that the unit performs for the Sheriff’s department
2. Recognize key S.O. personnel
3. Know the names of DCSAR unit operations leaders, team leaders and board
4. Identify the people on your administrative team and your admin team leader
5. Describe the commitment that is required to successfully complete the academy
6. Describe the concept of chain of command and when it is appropriate to break this command structure
7. Understand insurance issues as it relates to participating in SAR
8. Know where to locate copies of the bylaws and various unit policy documents
9. Demonstrate basic knowledge regarding what type of clothing are appropriate for SAR operations
10. List the general contents of the 24-hour ready pack
11. List the equipment that will be needed for the first field exercise
12. Knots: figure-8 on a bite, water knot
13. Understand what you should look for when selecting your SAR clothing
14. Know what the official uniform looks like
15. Tie a figure-8 on a bite
16. Identify where to find the phone numbers of your Admin team members for inclusion in your cell phone

### Test

FUNSAR Ch. 1 (Overview of Land Search and Rescue)

## 2. Equipment Orientation / Radio Usage

[Wednesday, 2 September]

<u>Instructors</u>	<u>Time</u>	<u>Topic</u>
M. Nobel*		Moderator
Rippii	40	Equipment Orientation
Soderman	15	Test FUNSAR 7, 9
Evans	20	Personal Equipment (Pack overview)
Dill	30	Radio Usage
Evans	10	Knot: Prussic Hitch

### Pre-Class Learning Tasks

FUNSAR Ch. 3: SAR Incident Management and Organization

ICS-100 on-line course (<http://training.fema.gov/emiweb/is/is100a.asp>)

Study web based course, then take test. Takes about 60 minutes.

DSAH \Radio\ SAR Radio Book:

Radio Protocol; Additional Information; Common Radio Terminology

CP200 Radio Instructions

Mobile Radio Symbols

### Objectives

By the end of this class you should be able to:

1. Describe the major tenants of ICS.
2. Describe where to find keys; what order trucks are put into service; and how to load into a truck.
3. Demonstrate how to switch channels on radio.
4. Demonstrate how to use scan and talk about features on handheld radios.
5. Demonstrate how to use scan and talk about features on mobile radios.
6. Recite the combination to the lock box.
7. Illustrate the common command structure for a Heavenly search.
8. Identify what equipment a member may still need to acquire prior to the field emersion weekend.
9. Tie a prussic hitch.
10. Tie a clove hitch.

### Test

FUNSAR: 7 (SAR Clothing) & 9 (The SAR "Ready Pack" and Personal Equipment)

Phone check for SAR Leader phone numbers (OL's, TL's, ATL's)

### 3. Training a Search and Rescuer in 90 Minutes [Wednesday, 9 September]

Instructors	Time	Topic
Evans*		Moderator
Various	90	Training a Rescuer in 90 Minutes
Stukey	40	Test: ICS / FUNSAR Ch. 3
Evans	25	Pack Checks

#### Pre-Class Preparation

FUNSAR 13: Tracking

FUNSAR 15: Search Operations

*FUNSAR 10: Navigation (Optional: This is a long chapter. Consider getting a head start.)*

DSAH: Admin\Initial Response Guidelines

#### Objectives

By the end of this class you should be able to:

1. Have a solid understanding of the tenants of ICS
2. Be able to recognize with core tenants of ICS are not being followed
3. Differentiate the roles of Operations Chief, Incident Commander and Safety officer
4. Know what to do when dealing with the press
5. Know what to do when dealing with families of missing subjects
6. Have some appreciation of the knowledge and skills that you need to develop further
7. Have an awareness of skills and tactics that will aid you in your field exercises
8. Demonstrate that key phone numbers are in your cell phone
9. Demonstrate and explain what equipment you need for the field exercises

#### Test

FUNSAR Ch. 3: SAR Incident Management & Organization

Packs are checked to make sure that trainees are ready for the Field Training Weekend

## 4. Field Emersion Weekend

[Friday thru Sunday: September 11-13]

Instructors	Time	Topic
Evans* FRI	PM	Tahoe
N. Nobel	SAT ALL DAY	Heavenly
S Thomas	SAT PM	Intro to Search [Simulation]
R. Rippii	SAT PM	Pinenuts
Shorty	SUN AM	Daggett
M. Nobel	SUN PM	Pinenuts

### Pre-Class Preparation

FUNSAR 4: Legal & Ethical Aspects of SAR

FUNSAR 5: Physiology & Fitness

FUNSAR 6: Survival & Improvisation

DSAH: Admin\Important Policies & Issues Concerning Trainees

### Objectives

By the end of this exercise you should be able to:

1. Understand your strengths and weaknesses with regard to rendering medical aid.
2. Understand what roles you may be able to play on a technical rope rescue.
3. Understand the use of attraction in search.
4. Demonstrate an ability to work at night.
5. Demonstrate a minimum physical aptitude.
6. Demonstrate the ability to problem solve and improvise backcountry emergencies.
7. Demonstrate the ability to get trucks out of the yard.
8. Demonstrate the ability to fuel trucks and put them away.
9. Demonstrate the ability to properly talk on the radio.
10. Demonstrate the ability to properly execute orders.
11. Demonstrate good team skills.
12. Demonstrate the ability to deal with pressure situations.
13. Intelligently discuss: ICS, how we should deal with the press, how to deal with evidence, how to deal with family members, how a field team should go about the task of conducting a hasty search.
14. Demonstrate how to tie a figure 8 on a byte, water knot, prussic, clove hitch.
15. Know if you really want to continue on with SAR.
16. Complete a 9 mile hike on the Rim Trail from Stagecoach to Monument Pass while carrying a 20+ pound pack in less than 6 hours.
17. Identify the following geographic locations in Douglas County:
  - a. Job's Peak
  - b. Monument Peak
  - c. Mt. Segal
  - d. Mt. Como
  - e. Mineral Peak
  - f. East Peak
  - g. Genoa Peak
18. Demonstrate ability to act as a competent navigator in a truck – warn driver of upcoming turns and intersections, estimate arrival time at various locations, roughly follow position on map without a GPS, follow position on map with GPS.
19. Demonstrate ability to change batteries in GPS in the wilderness at night.
20. Demonstrate ability to set a waypoint in a GPS from a point identified on a map.
21. Plot a position on a map from a UTM on a GPS.
22. Set a waypoint in a GPS using a UTM coordinate.
23. Set a waypoint in a GPS using a Long/Lat coordinate.

### Tests

FUNSAR Ch. 15 (Search Ops) – in the field as teams & Ch 3 make-up (ICS)

Ch. 6 (Survival & Improvisation)

## 5. Navigation 1

[Wednesday, 16 September]

Instructors	Time	Topic
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Evans\*

Felton

Harris

### Pre-class Preparation

FUNSAR 10: Navigation

### Objectives

1. Given point X on a map, can expertly measure the magnetic bearing to point Y.
2. Define the following terms or concepts:
  - a. Determining distances (p. 161)
  - b. Contour lines (p. 154)
  - c. True north (p. 158)
  - d. Grid north and magnetic north (p. 158)
3. Demonstrate the use of the UTM (Universal Transverse Mercator) Grid System to determine the coordinates for a given point. (p. 146-148)
4. Describe the procedures used to obtain a back azimuth. (p. 158-160)
5. Describe how to take a bearing in the field and transfer it correctly to the map, and obtain a bearing on the map and transfer it correctly to the field. (p. 163-165)
6. Describe techniques used to navigate during daylight hours while wearing a 24-hour pack. (p. 151-165)
7. List three advantages and three limitations of GPS (Global Positioning System) units as employed during search operations. (p. 166-168)
8. Convert between different Long/Lat formats (dd.dd, dd mm ss, dd mm.mm)
9. Identify lines that run true north on a map.
10. Identify U.S. Public Land Survey map marks and explain how we can use these marks to communicate a location.
11. Orient a map.
12. Determine the bearing to a point.
13. Describe how to hike to a given location when given a bearing to hike – including situations when an obstacle makes it impossible to travel in a straight line.

### Test

Plotting exercises

[Make-up previously missed tests—if time]

## 6. Intro to Search

[Friday, 18 September]

Instructors	Time	Topic
Burke P.	2:10	Intro to Search
Stukey	0:20	Test Ch. 8

### Pre-class Preparation

FUNSAR 8: Safety in SAR Environments

FUNSAR Appendix 2: Search Urgency

DSA: Search / Intro to Search notes

### Objectives

By the end of this class you should be able to:

1. Describe the following processes:
  - a. Checking in at the incident (p. 254)
  - b. Crew mission briefing (p. 254)
  - c. Crew mission debriefing (p. 255)
  - d. Checking out of the incident (p. 256)
2. Describe the general functions of the various search crew positions (p. 255)
3. Differentiate between indirect and direct search tactics (p. 241-243)
4. Describe the following search tactics:
  - a. Containment (confinement) (p. 242)
  - b. Hasty search (p. 242-245)
  - c. Loose grid (p. 243-245)
  - d. Tight grid (p. 245-247)
  - e. Evidence search (p. 247)
5. Define the following
  - a. Base line (p. 243)
  - b. Guide line (p. 243)
  - c. Guide person (p. 243)
  - d. Search lane (p. 243)
6. Describe and demonstrate the use of the grid search naming system used by the Boy Scouts of America (p. 248-251)
7. Describe how Average Maximum Detection Range (AMDR) is estimated in the field (p. 248-250)
8. Understand and define key terms related to search:
9. Containment
10. ADMR
11. Generally describe how search behavior databases are used to prioritize search areas
12. Define the following:
  - a. Last point seen (LPS)
  - b. Last known position (LKP)
  - c. Probability of area (POA)
  - d. Probability of detection (POD)
  - e. Probability of success (POS)

### Test

FUNSAR 8: Safety in SAR Environments

## 7. Ground Search Field Exercises

[Sunday, 20 September]

Instructors	Time	Topic
Nobel N.	8:30	Detecting clues from trucks Loose grid search exercise Tight grid searches Determining AMDR Patient Packaging review

### Pre-class Preparation

1. Pack a lunch

### Objectives

By the end of this exercise you should be able to:

1. Use well understood tactics for conducting line searches
2. Determine ADMR for a given item in a given terrain
3. Securely fasten a backboard to a litter
4. Assist medical technicians in placing a victim on a backboard
5. Work effectively on an area search team
6. Properly react to finding or to a team member finding evidence
7. Describe considerations for using a K9 team for an area search
8. Demonstrate ability to act as a competent navigator in a truck – warn driver of upcoming turns and intersections, estimate arrival time at various locations, roughly follow position on map without a GPS, follow position on map with GPS
9. Demonstrate ability to orient a map with a compass. Correlate geographic features indicated on the map with those that are visible
10. Identify a ridge, saddle, draw and peak on a map and in nature
11. Given a map name can determine the map number
12. Locate a given street in Douglas County using the county map book
13. Define, without hesitation:
  - a. PKP
  - b. POA
  - c. POD
  - d. LPS
  - e. Hasty search
  - f. Loose grid search
  - g. Tight grid search
14. Describe factors which diminish searcher effectiveness and how to mitigate those factors

## 8. Navigation 2

[Monday, 21 September]

Instructors	Time	Topic
Felton Smith N. Noble N. Harris		Test: Chapter 10 - Navigation

### Pre-class Preparation

Garmin Oregon 300 GPS Manual

**THIS WILL BE A FIELD EXERCISE** – dress accordingly!

### Discussion

A continuation of the Navigation 1 class. Students are given an overview of GPS technology and its limitations. By this time, students have used GPS units during four field trainings, so we will just fill in any missing holes and answer outstanding questions. A demonstration of how track logs are used by search management with MapTech software is also presented.

### Objectives

By the end of this class you should be able to:

1. Demonstrate ability to set a waypoint in a GPS from a point identified on a map.
2. Plot a position on a map from a UTM on a GPS.
3. Set a waypoint in a GPS using a UTM coordinate.
4. Set a waypoint in a GPS using a Long/Lat coordinate.
5. Convert a Long/Lat coordinate to UTM with the aid of a GPS.
6. Explain what a map datum is. Analyze the practical implications for using a map and GPS together.
7. Demonstrate how to use the track back feature in the GPS.
8. Clear existing tracks.
9. Select a waypoint.
10. Change the batteries in your GPS.
11. Transmit a track or waypoint between two Garmin 300 GPS's.
12. Change the map datum in your GPS.
13. Set the alarm on the Garmin 300 GPS and describe it's practical use.
14. Calibrate the touch screen of the Garmin 300.
15. Locate a street in Douglas County using the search feature of the Garmin 300.

### Practical

Students work with GPS units to set waypoints and clear/save track logs.

### Test

FUNSAR 10: Navigation

DCSAR: Navigation Test

## 9. Intro to Man Tracking

[Wednesday, 23 September]

Instructors	Time	Topic
Moreira F.	3:00	Intro to Man Tracking
Kerley		Test: Chapter 13 – Tracking

### Pre-class Preparation

DSAH: Tracking \ Search & Rescue Tracking

DSAH: Tracking \ The Tracking Team

### Objectives

By the end of this exercise you should be able to:

1. Define the following:
  - a. Track or print (p. 210-211)
  - b. Sign (p. 211)
  - c. Sign-cutting (p. 212)
  - d. Step-by-step tracking (p. 212, 214-215)
2. Describe the use of a tracking stick/walking stick in tracking (p. 214-215)
3. Describe the method of labeling a track (p. 215)
4. Describe the responsibilities of each of the members of a tracking crew (point, flankers) (p. 215-216)
5. Describe basic equipment needed by all team members for tracking
6. Demonstrate how to complete a track report

### Test

Complete a track report.

FUNSAR 13: Tracking

## 10. Man Tracking Field Exercise

[Sunday, 27 September]

Instructors	Time	Topic
Taylor		Tracking Field Exercise

### Pre-class Preparation

None

### Objectives

By the end of this exercise you should be able to:

1. Complete a track report.
2. Track prints for 300 meters
3. Cut for sign over a 500 meter area
4. Use a tracking stick to aid in following a track
5. Use techniques for re-establishing a lost track

### Test

Track a print for 300 meters (task book sign off)

## 11. Ops Management /Mutual Aid Events/ Unit Admin Overview

[Monday, 28 September]

Instructors	Time	Topic
Soderman		Chapter Review Ch 11, 12, 14
Hogan		Mutual Aid Events
Thomas		Operations Management
Stukey		Test: Chapter 3 – ICS (make-up)

### Pre-class Preparation

FUNSAR Ch. 11: SAR Resources and Technology

FUNSAR Ch. 12: Travel Skills

FUNSAR Ch. 14: Search Background and Related Issues

DSAH: Admin \ Bylaws; Policies & Procedures' Mission Statement

### Objectives

By the end of this class you should be able to:

1. Describe differences between tracking/trailing and air-scenting canines. (p. 183)
2. List at least two uses for aircraft in SAR operation. (p. 185)
3. Describe four possible methods for documenting evidence. (p. 236)
4. Describe the considerations for handling evidence associated with the following situations:
  - a. Crash scenes (p. 236-237)
  - b. One or more fatalities (p. 237-238)
  - c. Injuries (p. 238)
5. Describe in hours the average usefulness of a field searcher per operational period (p. 223)
6. Describe how a complete subject profile can help predict the behavior of a lost person (p. 233-234)
7. Describe the driving concept behind the application of search theory. (p. 232)
8. Describe the unique combination of characteristics on which clue detection is based (p. 225-227)
9. Describe how the unit typically responds to a mutual aid event – including check in/out procedures and briefing procedures
10. Describe some of the “etiquette” issues when working for other agencies
11. Describe safety considerations when responding to other jurisdictions
12. Describe “red flags” that should alert you that SAR management might not have a handle on safety issues
13. Describe how searches are typically managed in Douglas County
14. Discuss how on-going investigations are important to search management
15. Discuss the impact of probability theory on initial search management
16. Discuss what things become critical when second, third and later operational periods become necessary
17. Have any questions regarding unit Bylaws, Policies and Procedures, Mission Statement or DCSO Policies answered

### Test

FUNSAR 3 - ICS

ICS Forms (task book sign off)

## 12. 4WD / Hi Lift Jacks / Winching / ATV Operation Standards

[Wednesday, 30 September]

<u>Instructors</u>	<u>Time</u>	<u>Topic</u>
Rippii		HiLift Jack Operation (OUTDOORS)
Voss		ATV Operation Standards
Thomas		Winch Operation

### Pre-class Preparation

#### **Dress for an outdoor exercise**

DSAH: 4WD\4x4 Tips: Show & Ice

DSAH: 4WD\Hill Ascent and Descent Techniques

DSAH: 4WD\Hi Lift Jack Instruction Manual

DSAH: 4WD\Winch Operation Manual

DSAH: 4WD\Five Safety Tips When Taking your Vehicle Off-Highway

Proficiency Standards: 4WD

Proficiency Standards: ATV

### Objectives

By the end of this class you should be able to:

1. Describe the basic requirements for a Rescue Member to operate an ATV
2. Operate a HiLift Jack to raise and lower a vehicle
3. Explain what safety precautions should be taken when operating a winch
4. Explain where a HiLift jack can be used on a vehicle
5. Explain where and how to connect a winch between vehicles

### Test

DCSAR: Winch Safety Test

DCSAR: 4WD Test

HiLift Jack Operation

### 13. 4WD Field Exercise

[Sunday, 4 October]

Instructors	Time	Topic
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Thomas S  
Rippii  
Lopes

#### Pre-class Preparation

Bring a lunch

#### Objectives

By the end of this exercise you should be able to:

1. Safely drive on easy and moderate terrain under fair weather conditions
2. Explain the importance of transmissions in off road driving
3. Explain and demonstrate how to put various trucks into 4WD
4. Safely use a tug'm strap to extract a vehicle and identify safe and unsafe methods for connecting tug'm straps between vehicles
5. Safely winch a truck using another truck.
6. Demonstrate the use of a snatch block
7. Complete a vehicle log sheet
8. Properly clean and store a vehicle
9. Proficiently install tire chains
10. Use a HiLift Jack for changing a tire in sandy soil
11. Change a tire
12. Identify main access routes into the Pinenut Mountains
13. Explain what should be done if a piece of equipment is broken during a training or mission
14. Properly stow a winch after use
15. Explain what can happen if a winch is used when not wound properly

## 14. First Aid / Patient Packaging

[Monday, 5 October]

Instructors	Time	Topic
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Noble M

Rose

Smith C

### Pre-class Preparation

Academy Manual: Medical – First Aid

Academy Manual: Medical – Patient Care

### Discussion

Students will be introduced to basic procedures that should be done when medical emergencies are encountered. ABC's and rescuer safety are emphasized. Students are also introduced to what they will learn in Wilderness First Aid, Wilderness First Responder, and EMT classes.

### Objectives

By the end of this class you should be able to:

1. Demonstrate an accurate hold on a C-Spine subject
2. Demonstrate ability to maneuver an injured person onto a backboard with other team members under the direction of a medically qualified technician
3. Demonstrate ability to carry a litter (with packaged patient) for ¼ mile with team members
4. Demonstrate ability to maneuver a backboard (with packaged patient) into and out of a litter when working with a team
5. Demonstrate ability to place a litter (with packaged patient) onto a litter carrier with a team
6. Demonstrate ability to place a litter (with packaged patient) onto all unit litter carriers with a team

### Test

DCSAR First Aid Test

## 15. Intro to Technical Rope Rescue

[Wednesday, 7 October]

Instructors	Time	Topic
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Evans  
Lopes  
Noble

### Pre-class Preparation

FUNSAR 16: Rescue

DSAH: Rope Operations\Knots

Web: [www.animatedknots.com](http://www.animatedknots.com)

DSAH: Rope Operations\Tech Rope Introduction

DSAH: Systems Diagrams

### Objectives

By the end of this class you should be able to:

1. Tie the following knots:
  - a. Water knot
  - b. Overhand on a bite
  - c. Figure-8 on a bite
  - d. Figure-8 on a bend
  - e. Figure-9 follow through
  - f. Prussic hitch
  - g. Girth hitch
  - h. Clove hitch
2. Identify which trucks carry technical rope rescue equipment.
3. Have a general understanding of what raising and lowering systems work.
4. Define belay.
5. Describe and use the basic PPE that is used in rope rescue (helmet, gloves, harness) and describe where it is stored.
6. Describe the different groups that work together on a rope rescue.
7. **Know what role you will likely play in the next field exercise rescue.**

### Test

FUNSAR 16: Rescue

Knots

Putting on PPE

## 16. ELT / Aircraft Searches

[Thursday, 8 October]

Instructors	Time	Topic
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Felton

### Pre-class Preparation

DSAH: Air / ELT / Heli [Items 1- 6]

ELT Course Outline

L-Per (New) Operating Manual

ELT Locator or L-Pers (Old)

Locating Non-distress ELTs & EPIRBs

Air & Ground Finding

ELT Forms

### Discussion

Students are provided a basic overview of how ELT's work and the different government agencies involved. They learn techniques for using radio direction finding equipment in locating emergency locator beacons and personal locator beacons in mountainous terrain. Frequencies and techniques for identifying poor readings are reviewed. Finally, standard operating procedures are reviewed for initial readings.

### DCSAR ELT Search Proficiencies

7.101 Describe all ELT frequencies used

7.102 Orient a new L-Per and give the approximate magnetic direction to the beacon in REC and DF modes

7.103 Orient an old L-Per and give the approximate magnetic direction to the beacon in REC and DF modes

7.104 Explain how an old L-Per reacts as it gets closer to an ELT signal and what adjustments the operator must make.

7.105 Explain how a new L-Per reacts as it gets closer to an ELT signal.

7.106 Explain when and how calibration should be done and demonstrate the procedure for calibrating one of the new L-Per's

7.107 Describe what type of battery is used in an old L-Per and demonstrate how to change the battery.

7.108 Describe what type of battery is used in a new L-Per and demonstrate how to change the battery.

7.109 Explain all 3 techniques for determining if an L-Per reading is good

7.110 Explain at least 7 environmental factors that can effect readings and what to do about them.

7.111 Explain 6 factors affecting compass accuracy

7.112 Demonstrate taking a bearing for an L-Per operator in DF and REC modes

7.113 Demonstrate accurate completion of an ELT work sheet

### Practical

### Test

DCSAR ELT Test

## 17. ELT Field Exercise

[Sunday, 10 October]

Instructors	Time	Topic
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Felton

### Pre-class Preparation

Everything to this point

Objectives: See previous class objectives.

### Discussion

No discussion, this is a simulated field exercise.

### Practical

Students will spend the day using ELPR's on a simulated plan crash. Navigation and 4WD skills will be used extensively during the field exercises and the possibility exists that a technical rescue will be required upon the find.

## 18. Legal Issues / Infectious Diseases

[Monday, 12 October]

Instructors	Time	Topic
Neuffer		Legal
Noble M		Infectious Diseases

### Pre-class Preparation

FUNSAR Ch 4: Legal and Ethical Aspects of Search and Rescue

DSAH: Miscellaneous / Vicarious Liability & the SAR Team

Academy Manual: Medical / Infectious Diseases

Infectious Disease Course Outline

Infectious Disease Exposure (DCSO Coroner's Department)

Medline Plus: Infectious Diseases

Infectious Diseases Information

HIV / AIDS

Hantavirus

### Discussion

Students will be introduced to legal issues related to SAR, including the good Samaritan Law, vicarious liability, duty to act, and negligence.

Students will also be educated about infectious diseases and precautions that need to be taken to ensure rescuer safety and the importance of documenting care given to subjects.

### Practical

Complete patient assessment form at the direction of a medical technician

### Test

FUNSAR Ch. 4: Legal & Ethical Aspects of Search & Rescue

DCSAR Infectious Disease Test

## 19. Evidence / Criminal Events / Critical Incident Stress [Wed, 14 October]

Instructors	Time	Topic
Aymami	25	Evidence
DCSO Psychologist	75	Psychological Dangers of SAR

### Pre-class Preparation

DSAH: Medical \ Critical Incident Stress (All Articles)

Critical Incident Stress Information Sheet

Critical Incident Stress

Post Trauma Do's & Don'ts

### Objectives

By the end of this class you should be able to:

1. Explain all procedures to follow in the event a clue is found that is believed to be connected with a search
2. Describe how evidence should be packaged
3. Explain the concept of chain of command and its implications in presenting evidence at trial
4. Describe how evidence may become contaminated and steps to take to prevent contamination
5. Recognize situations that could act as a catalyst for psychological injury
6. Explain steps that should be taken to ensure that team members are properly deal with a challenging situation
7. Describe symptoms that should trigger a person to seek counseling

### Test

## 20. Personal Survival / Improvised Rescues [Saturday, 17 October]

Instructors	Time	Topic
Ed Burgess (WCSSAR)	2:30	Classroom instruction on survival
	4:00	Night field exercise

### Pre-class Preparation

DSAH: Survival\Basic Personal Survival Outline

DSAH: Survival\General Backcountry Safety (especially pp10-15)

DSAH: Personal Survival Summary

### Objectives

By the end of this exercise you should be able to:

1. Identify your most important survival tool
2. Prioritize basic survival needs
3. Identify methods for signaling for help
4. Discuss and/or demonstrate how to build a shelter
5. Identify any deficiencies in personal equipment that would make surviving a short time in the wilderness more difficult (items used for: signaling, shelter building, water, fire)
6. Describe the symptoms and treatment of dehydration
7. Describe the symptoms and treatment of hypothermia
8. Discuss methods for coping with survival during winter/snow conditions

### Test

Field survival and improvisation exercise.

## 21. SAR Field Exercise [Saturday, 17 October]

Instructors	Time	Topic
Lopes / Soderman		

### Pre-class Preparation

Web: ICS-200

Web: ICS-700

### Discussion

Discussion is over. It is time to put your skills to the test.

### Practical

Students will use all their skills and knowledge to date to solve a problem.

### Test

Everything on this day is a test. Good luck.

## 22. Intro to: Flood / Swiftwater / K9 / Mines / Helicopters / Interviewing

[Wednesday, 21 October]

Instructors    Time            Topic

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Flood / Swiftwater - Rippii

K9 – Thomas A

Mines – Lopes

Helicopters – Evans

Interviewing – Thomas S

### Pre-class Preparation

DSAH: Swiftwater:

    Flood Physics

    Driving in Water

DSAH: Miscellaneous:

    Abandoned Mine Land Program Fact Sheet

DSAH: AIR / ELT / Heli:

    Helicopter Safety

    Helicopter Handout

FUN SAR: Appendix 5 – Missing Person Questionnaire (pg 284 - 292)

### Discussion

Students are made aware of various issues that they may encounter that they may need to recognize that they are ill-equipped to handle. The main purpose of this discussion is to make students aware when they might be getting in over their head and could be jeopardizing their safety or the plans of search management.

### Practical

Students will be divided into groups and asked to explain how they would react to a number of different scenarios.

### Test

DCSAR Exam: Helicopters

DCSAR Exam: Floods

## 23. FINAL EXAM

[Sunday, 25 October]

Instructors	Time	Topic
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Evans  
Harris

### Pre-class Preparation

1. Review your proficiency handbook; exam content mostly comes from this
2. Review Rod Hogan's book on Techniques for Identifying and Cataloging Red Necks. If you are one, then this part of the exam should be easy.
3. You've been through the academy, you are prepared!

## 24. GRADUATION!

[Thursday, 29 October]

Speakers	Time	Topic
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Evans

### Pre-class Preparation

**INVITE YOUR FAMILY!**