



Animal Technical Rescue Awareness

Course Plan

Course Details

Description: This course provides the knowledge and understanding of skills and resources necessary to respond to a ATR incident as a single incident, or as a component of large scale disaster involving large and small animal and human elements, and to do so in a safe and effective manner, with low impact on ongoing emergency services operations.

This course also meets and exceeds NFPA 1670 Chapter 17.1 - 17.2 guidelines and covers the most likely animal species that first responders are called to rescue and manage: cattle (beef and dairy), horses, including working horses (police mounts, SAR), companion animals and working dogs (SAR, K-9).

Designed For: Fire Service Personnel

Authority: NFPA 1670 Standards for Technical Rescuer Professional Qualifications (2014)

Prerequisites: ICS 100 and ICS 200

Standard: NFPA 1670, Chapter 17.1 - 17.2

Hours: Lecture: 6:00 / Activities: Table Top Exercise: 1:00

Hours (Total): 7:00

Maximum Class Size: 50

Instructor Level: Registered FSTEP Instructor

Instructor/Student Ratio: 1:25

Restrictions: none

SFT Designation: FSTEP

Required Resources

Instructor Resources

To teach this course, instructors will need:

(Download at <http://osfm.fire.ca.gov/training/SFTCurriculum>)

- *Animal Technical Rescue - Awareness Instructor Manual*, 1st Ed (2017), Large Animal Rescue Foundation, Inc.
- *Animal Technical Rescue - Awareness Student Manual*, 1st Ed (2017), Large Animal Rescue Foundation, Inc.
- Animal Technical Rescue - Awareness Power Point Slide Deck

Student Resources

The following student resources are required:

- *Animal Technical Rescue - Awareness Student Manual*, 1st Ed (2017), Large Animal Rescue Foundation, Inc.
<http://osfm.fire.ca.gov/training/SFTCurriculum>

Facilities, Equipment, and Personnel

The following facilities, equipment, and personnel are required to deliver this course:

- Standard learning environment or facility
- Classroom that accommodates up to 50 students
- Incident action plan (IAP)
- Projection equipment and screen
- Activity 1– 1: Table top scenario and worksheets for 50
- Lecture; One primary instructor (one assistant instructor for larger groups)
- Skills/demonstrations; One registered primary instructor (one assistant instructor for a larger group)

Unit 1: ATR – Awareness: Orientation, Administration and Certification

Topic 1-1: Orientation and Administration

Terminal Learning Objective

At the end of this topic, a student will be able to identify facility and classroom requirements and identify course objectives, events, requirements, assignments, activities, resources, evaluation methods, and participation requirements in the course syllabus.

Enabling Learning Objectives

1. Identify facility requirements
 - Restroom locations
 - Food locations
 - Smoking locations
 - Emergency procedures
2. Identify classroom requirements
 - Start and end times
 - Breaks
 - Electronic device policies
 - Special needs and accommodations
 - Other requirements as applicable
3. Review course syllabus
 - Course objectives
 - Calendar of events
 - Course requirements
 - Assignments
 - Activities
 - Required student resources
 - Class participation requirements

Discussion Questions

1. To be determined by the instructor

Activities

1. To be determined by the instructor.

Topic 1-2: Animal Technical Rescue – Awareness Certification Process

Terminal Learning Objective

At the end of this topic, a student will be able to identify different levels in the Animal Technical Rescue Certification Track, the courses and requirements for Awareness Level certification, and other complimentary technical rescue skills.

Enabling Learning Objectives

1. Identify the different levels of certification in the certification track
 - Level 1 Animal Technical Rescue -Awareness
 - Level 2 Animal Technical Rescue Technician
2. Identify the courses required for each level

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- Animal Technical Rescue- Awareness
 - ICS 100, 200
 - Animal Technical Rescue – Technician
 - Animal Technical Rescue Awareness level
 - Working knowledge of rope systems
 - FEMA course IS-10.A Animals in Disasters
 - FEMA course IS 11.A Animal in Disasters Community Planning
 - FEMA course IS 111.A Livestock in Disasters
 - ICS 100, 200, 700 and 800
3. Explain how complimentary technical rescue skills can be adapted for ATR
- Vehicle Extrication
 - Swift Water Rescue
 - Trench Rescue
 - Low angle Rope Rescue
 - High angle Rope Rescue

Discussion Questions

1. How can Trench Rescue skills be applied to ATR?
2. How can Swift Water Rescue skills be applied to ATR?

Activities

1. To be determined by the instructor.

Unit 2: ATR – Introduction to ATR

Topic 2-1: Introduction to Animal Technical Rescue

Terminal Learning Objective

At the end of this topic, a student will be able to identify the need for and difference between Technical Rescue and Evacuation, and understand the social, political, and public issues related to animal rescue services. The student will be able to describe types of disasters and how ATR might be a component of disaster or evacuation responses.

Enabling Objectives

1. Describe what Animal Technical Rescue is
2. Describe the importance of animals
 - Economic value
 - Working animals value
 - Emotional value
 - Historic value
 - The value of service animals

Discussion Questions

1. What is the difference between EVAC and Extrication
2. Which would happen in the event of an earthquake?
3. What could a bio-terrorist do to attack the food industry?
4. What value do working animals provide to Police and Search and Rescue situations?

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Activities

1. To be determined by the instructor.

Topic 2-2: Types of ATR Requests

Terminal Learning Objective

At the end of this topic, a student will be able to identify and give examples of the most common ATR requests, stemming from both natural disasters and man-made hazards. The student will be able to identify planning and resources needed for disaster or evacuation responses.

Enabling Learning Objectives

1. Describe the different types of ATR requests
 - Single incident
 - In the course of a natural
 - Natural
 - Human made
 - Common ATR requests
 - On road incidents
 - Off road incidents
 - Stable/barn yard incidents
 - Common ATR requests for small animals
 - ATR in a disaster setting
2. Identify different types of disasters and the impact on Animals and the human population.
 - Natural disaster
 - Pending
 - Immediate
 - Human-made disaster
 - NBC, Terrorist
 - Soft targets
 - Food industry
3. Explain the difference between ATR and Evacuation (EVAC)
4. Identify disaster preparation
 - Training
 - Preplanning
 - MOU's, resources
 - Equipment caches

Discussion Questions

1. What is the difference between EVAC and Extrication
2. Which would happen in the event of an earthquake?
3. What could a bio-terrorist do to attack the food industry?
4. What value do working animals provide to Police and Search and Rescue situations?

Activities

1. To be determined by the instructor.

Unit 3: ATR – Awareness: Response

Topic 3-1: Applying ICS/NIMS/SEMS to ATR

Terminal Learning Objective

At the end of this topic, a student will be able to identify the organizational system and resources for Animal Technical Rescue within the context of disaster or single incident response.

Enabling Learning Objectives

1. Describe the application of the ICS system to ATR, expanding or contracting according to incident.
2. Describe the multi agency response to an ATR.
3. Review the ROSS animal rescue positions.
4. Discuss animal protection ICS matrix.
5. Explain the unified command in an ATR response.

Discussion Questions

1. What is the function of the IC?
2. Who is a part of the unified command?
3. What additional CIS components are needed in an ATR?
4. What changes may be made to the command structure been a single incident and an natural disaster?

Activities

1. To be determined by the instructor.

Topic 3-2: ATR Resources

Terminal Learning Objective

At the end of this topic, a student will be able to identify resources for Animal Technical Rescue and coordination of those resources for single-incident ATR, as well as disaster and food industry contamination.

Enabling Learning Objectives

1. Describe the different resources that may respond to an ATR.
2. Describe the agencies with jurisdictional responsibilities
3. Describe the agencies with functional responsibilities.
4. Explain jurisdictional agencies and how they can blend into a Unified Command
5. Identify and know how to request the appropriate resources
6. Discuss hand off
7. Discuss the role of NGOs (Non Governmental Organization)
8. Discuss food industry resources.

Discussion Questions

1. What is the difference between EVAC and Extrication
2. Which would happen in the event of an earthquake?

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3. How would animal extrication play a part in the food chain?
4. What additional CIS components are needed in an ATR?

Activities

1. To be determined by the instructor.

Topic 3-3: ATR Considerations for Evacuation

Terminal Learning Objective

At the end of this topic, a student will be able to identify the need for animal evacuations, evacuation priorities, the potential need for ATR and challenges in evacuation situations.

Enabling Learning Objectives

1. Describe the the difference between a rescue and an animal evacuation.
2. Explain how ATR may be a component of an evacuation.
3. Identify and know how to request the appropriate resources
4. Explain the need for establishment of MOU's and pre planning

Discussion Questions

1. What is the difference between EVAC and Extrication
2. Which would happen in the event of an earthquake?
3. How would animal extrication play a part in the food chain?
4. What additional CIS components are needed in an ATR?

Activities

1. To be determined by the instructor.

Topic 3-4: Size-up

Terminal Learning Objective

At the end of this topic, a student will be able to identify the different factors, including safety issues, involved in sizing up an ATR incident.

Enabling Learning Objectives

1. Describe the the different considerations when making a size up of an ATR incident.
2. Identify and know how to request the appropriate resources.
3. Describe the difference between Strategy vs Tactics.
4. Discuss operational constraints.
5. Explain possible hazmat considerations with ATR responses
6. Discuss hand off.

Discussion Questions

1. When does Size up start?
2. What are the main factors involed in an ATR size up?

Activities

1. To be determined by the instructor.

Unit 4: ATR – Awareness: Responder Safety

Topic 4-1: Responder Safety

Terminal Learning Objective

At the end of this topic, a student will be able to identify the priorities, need for training, and safety equipment to assure responder safety at an ATR.

Enabling Learning Objectives

1. Describe the different rescuer safety concerns.
2. Discuss training needs.
3. Discuss Proper Protective Equipment.
4. Discuss adaption of existing equipment.

Discussion Questions

1. What existing equipment can be used in an ATR?
2. What industry equipment can be used in an ATR?
3. What considerations must rescuers make for their protection?

Activities

1. To be determined by the instructor.

Topic 4-2: Animal Behavior

Terminal Learning Objective

At the end of this topic, a student will be able to identify the pertinent animal behavior and characteristics of most common species and understand how this applies to rescuer safety.

Enabling Learning Objectives

1. Identify differences between prey and predatory animals
2. Describe characteristics unique to common large animal species
 - Donkeys, burros, mules, cattle, llamas, alpacas, swine, and wild animals
 - Safety tips
3. Describe characteristics common to small animal species dogs and cats
 - Hearing
 - Approach
 - Posturing
4. Describe safe positioning with a prey animal or a predator

Discussion Questions

1. What scene safety considerations apply to an animal rescue given their behavior and characteristics
2. What should be included in Rescuer PPE?

Activities

1. To be determined by the instructor.

Unit 5: ATR – Awareness: Managing Loose Animals

Topic 5-1: Managing Loose Animals

Terminal Learning Objective

At the end of this topic, a student will be able to identify public safety issues related to loose animals on the scene of an ATR, and the factors involved in managing loose animals, including reading animal behavior and flight zone. The student will be able to describe a variety of containment methods and herding operations.

Enabling Learning Objectives

1. Describe the “Flight Zone”
2. Describe catching an animal.
3. Describe haltering, leading and releasing an animal.
4. Discuss herding multiple animals.
5. Managing dogs and cats.
6. Types of muzzles.
7. Define flight zone, milling and stampede
3. Identify types of pressure
4. Describe behaviors, postures and placement that will lead to successful herding
5. Describe possible means of containment
6. Describe the ‘Line of Fire”

Discussion Questions

1. What scene safety considerations apply
2. What is the Flight Zone?
3. How do you release pressure off the flight zone?
4. How can the flight zone be used to herd animals?

Activities

1. To be determined by the instructor.

Unit 6: ATR – Awareness: Animal Rescue Equipment

Topic 6-1: Animal Rescue Equipment

Terminal Learning Objective

At the end of this topic, a student will be able to identify commercially available ATR equipment and describe how to adapt equipment and accessory tools from a Type 1 engine or Rescue equipment cache.

Enabling Learning Objectives

1. Describe commercially built ATR rescue straps
2. Identify the proper diameter hose used to make a rescue strap

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3. Describe the accessory tools used to facilitate the application of strapping and slings to an animal
4. Describe the most commonly used small animal tools both commercially made and impromptu made using commonly available items
5. Explain how standard engine or rescue truck equipment can facilitate an ATR, including:
6. Ropes, Webbing, Lift bags, Overhead lighting, Radios

Discussion Questions

1. What scene safety considerations apply to an animal rescue given their behavior and characteristics
2. What should be included in Rescuer PPE?

Activities

1. To be determined by the instructor.

Unit 7: ATR – Trailer Operations

Topic 7–1: Trailer Operations

Terminal Learning Objective

At the end of this topic, a student, given structural and damage characteristics and potential victim positions, will be able to determine the access and egress points of a common horse or livestock trailer, and use existing entry and exit points for victim extrication while protecting stability of the trailer.

Enabling Learning Objectives

1. Identify the different trailer types and various materials used for trailer construction
2. Identify the special problems involved with animal trailers
3. Describe the different trailer doors and ramps and how they influence rescue efforts
4. Identify special safety considerations needed for a trailer collision
5. Understand equipment and techniques that can simplify extrication efforts
6. Understand trailer manipulation
7. Identify safety considerations

Discussion Questions

1. What equipment can be used to alter an animal's position in a trailer?
2. What equipment can be used to move or extricate an animal?
3. What is the difference between a slant load and a straight load trailer, and how do they determine position of the occupants after a roll over?
4. How do dividers, mangers and tack rooms hamper extrication?

Activities

1. To be determined by the instructor

Unit 8: ATR – Examples and Summary

Topic 8-1: Examples and Summary

Terminal Learning Objective

At the end of this module, students will be able to describe the application of ATR, and given examples will identify the process from start to hand-off.

Enabling Learning Objectives

1. Explain a summary of the topics discussed.
2. Explain the importance of rescuer safety
3. Review how to request the appropriate resources
4. Review possible hazmat considerations with ATR responses
5. Identify agencies and resources for a HAZMAT component of an LAR incident
6. Discuss disaster recovery
7. Review risk management
8. Explain resources to request
9. Review the rescue options
10. Discuss euthanasia.
11. Discuss Critical Stress Debriefing.

Discussion Questions

1. What are the major concerns involving an ATR
2. What are the rescuer safety concerns?
3. How would animal extrication play a part in the food chain?
4. How does ATR fit into the ICS system?
5. Give an example of a hazmat
6. What is the importance of understanding animal behavior?

Activities

1. Table top exercise, given a photo of a rescue situation, students will determine the level of response and available resources.

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Time Table

Segment	Lecture Time	Activity Time	Total Unit Time
Unit 1: Orientation, Adminstration, and Certification			
Topic 1-1: Orientation and Administration			
Lecture	00:15		
Activity To be determined by instructor		00:00	
Topic 1-2: Certification Process			
Lecture	00:15		
Activity: To be determined by instructor		00:00	
Unit 1 Totals	00:30	00:00	00:30
Unit 2: Introduction to ATR			
Topic 2-1: Introduction to Animal Technical Rescue			
Lecture	00:15		
Activity		00:00	
Topic 2-2: Types of ATR Requests			
Lecture	00:15		
Activity: To be determined by instructor		00:00	
Unit 2 Totals	00:30	00:00	0:30
Unit 3: ATR Response			
Topic 3-1: Applying ICS/NIMS/SEMS to ATR			
Lecture	00:30		
Activity: To be determined by instructor		00:00	
Topic 3-2: Resources			
Lecture	00:15		
Activity: To be determined by instructor		00:00	
Topic 3-3: ATR Considerations for Evacuation			
Lecture	00:30		
Activity To be determined by instructor		00:00	
Topic 3-4: Size up			
Lecture	00:15		
Activity To be determined by instructor		00:00	
Unit 3 Totals	01:30	00:00	1:30
Unit 4: Rescuer Safety			
Topic 4-1: Rescuer Safety			
Lecture	00:30		
Activity To be determined by instructor		00:00	
Topic 4-2: Animal Behavior			
Lecture	01:00		

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Segment	Lecture Time	Activity Time	Total Unit Time
Activity To be determined by instructor		00:00	
Unit 4 Totals	01:30	00:00	01:30
Unit 5: Managing Loose Animals			
Topic 5-1: Managing Loose Animals			
Lecture	00:30		
Activity To be determined by instructor		00:00	
Unit 5 Totals	00:30	00:00	00:30
Unit 6: Animal Rescue Equipment			
Topic 6-1: Animal Rescue Equipment			
Lecture	00:30		
Activity To be determined by instructor		00:00	
Unit 6 Totals	00:30	00:00	00:30
Unit 7: Trailer Operations			
Topic 7-1: Trailer Operations			
Lecture	1:00		
Activity: To be determined by instructor		00:00	
Unit 7 Totals	1:00		1:00
Unit 8: Examples and Summary			
Topic 8-1: Examples and Summary			
Lecture	00:30		
Activity: Table Top Exercise		1:00	
Unit 8 Totals	00:30	1:00	1:30
Lecture, Activity and Unit Totals:	6:00	1:00	7:00

Course Totals

Total Lecture Time (LT)	6:00
Total Activity Time (AT)	1:00
Total Testing Time (TT)	0:00
Total Course Time	7:00