

Animal Technical Rescue

(NFPA 1006 Animal Technical Rescue
Awareness/Operations/Technician)

Curriculum Training Standards Guide (2021)



California Department of Forestry and Fire Protection
Office of the State Fire Marshal
State Fire Training

Animal Technical Rescue

Curriculum Training Standards Guide (2021)

Publication Date: November 2023

This CTS guide utilizes the following NFPA standards to provide the qualifications for State Fire Training's Animal Technical Rescue (2021) curriculum:

- NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)

State Fire Training coordinated the development of this CTS guide. Before its publication, the Statewide Training and Education Advisory Committee (STEAC) and the State Board of Fire Services (SBFS) recommended this CTS guide for adoption by the Office of the State Fire Marshal (OSFM).

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Table of Contents

Acknowledgements.....	1
How to Read a CTS Guide	2
Animal Technical Rescue.....	4
Section 1: Awareness.....	4
1-1: Sizing Up an Animal Technical Rescue Incident.....	4
1-2: Recognizing Incident Hazards and Initiating Isolation Procedures	6
1-3: Recognizing the Need for Technical Rescue Resources	8
1-4: Supporting an Operations- or Technical-Level Incident.....	10
Section 2: Operations.....	12
2-1: Recognizing Basic Animal Handling and Behavior Principles	12
2-2: Stabilizing a Representative Animal	13
2-3: Performing Triage	14
2-4: Constructing an Improvised Restraint Device	15
2-5: Moving a Representative Animal	16
2-6: Moving a Representative Animal	17
2-7: Maintaining Rescue Equipment.....	18
2-8: Moving a Representative Animal Load in a High-Angle Environment	19
2-9: Developing a Plan to Release a Representative Animal from Soil Entrapment	20
2-10: Developing a Plan for an Animal Transport Vehicle Incident.....	21
2-11: Removing a Packaged Representative Animal to a Designated Safe Area	23
2-12: Terminating an Incident	25
2-13: Interacting with a Person on the Scene Experiencing an Emotional or Psychological Crisis	27
2-14: Constructing a Simple Rope Mechanical Advantage System	28
2-15: Constructing a Compound Rope Mechanical Advantage System	30
2-16: Managing a Portable Highpoint Anchor and Multiple Compound Rope Mechanical Advantage System in a High-Angle Environment	32
Section 3: Technician	34
3-1: Moving a Representative Animal Load in an Extended Duration High-Angle Environment.....	34
3-2: Completing an Assignment While Suspended from a Rope Rescue System in a High-Angle Environment	36
3-3: Removing a Representative Animal from a Vertical Depth and Across a Horizontal Path Before Lowering It to a Designated Point	38
3-4: Conducting Helicopter Operations.....	40
3-5: Conducting Trailer Operations	42

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How to Read a CTS Guide

Overview

A curriculum training standard (CTS) guide lists the requisite knowledge, skills, and job performance requirements an individual must complete to become certified in a specific job function.

It also documents and justifies the OSFM-approved revisions to the curriculum's NFPA standard and identifies where each curriculum training standard is taught (course plan), tested (skill sheets), and validated (task book).

Individuals aspiring to meet State Fire Training's curriculum training standards must do so in accordance with the codes, standards, regulations, policies, and standard operating procedures applicable within their own agency or jurisdiction.

Format

Each curriculum training standard is comprised of eight sections.

Section Heading

Training standards are grouped by section headings that describe a general category. For example, the Fire Fighter 1 CTS guide includes the following section headings: NFPA Requirements, Fire Department Communications, Fireground Operations, and Preparedness and Maintenance.

Training Standard Title

The training standard title provides a general description of the performance requirement contained within the individual standard.

Authority

The CTS guide references each individual standard with one or more paragraphs of the corresponding National Fire Protection Association (NFPA) Professional Qualifications. This ensures that each fire service function within California's certification system meets or exceeds NFPA standards.

When California requirements exceed the NFPA standard, the CTS guide cites the Office of the State Fire Marshal as the authority and prints the corresponding information in *italics*.

Job Performance Requirements

This segment includes a written statement that describes a specific job-related task, the items an individual needs to complete the task, and measurable or observable outcomes.

Requisite Knowledge

This segment lists the knowledge that an individual must acquire to accomplish the job performance requirement.

Requisite Skills

This segment lists the skills that an individual must acquire to accomplish the job performance requirement.

Content Modification

This table documents and justifies any revisions to the NFPA standard that the development or validation cadres make during the development of a CTS guide.

Cross Reference

This table documents where each training standard is taught (course plan), tested (skill sheets), and validated (task book).

Animal Technical Rescue

Section 1: Awareness

1-1: Sizing Up an Animal Technical Rescue Incident

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.1.1

Job Performance Requirement

Size up an animal technical rescue incident, given background information and applicable reference materials, so that the scope of the rescue is determined, the number of animals is identified, the last reported location of all the animals is established, witnesses and reporting parties are identified and interviewed, resource needs are assessed, primary search parameters are identified, and information required to develop an initial incident action plan is obtained.

Requisite Knowledge

1. *Describe* types of reference materials and their uses
2. *Describe* availability and capability of the resources
3. *Describe* elements of an incident action plan and related information
4. *Describe* relationship of the size-up to the incident management system
5. *Describe* information gathering techniques and how that information is used in the size-up process
6. *Describe* basic search criteria for animal technical rescue incidents

Requisite Skills

1. Read technical rescue reference materials
2. Gather information
3. Use interview techniques
4. Relay information
5. Use information-gathering sources

Content Modification

Block	Modification	Justification

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Awareness (2021) <ul style="list-style-type: none">• Topic 3-2 Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Topic 3-2	Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Skill 7	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none">• JPR 8• JPR 22

1-2: Recognizing Incident Hazards and Initiating Isolation Procedures

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.1.2

Job Performance Requirement

Recognize incident hazards and initiate isolation procedures, given scene control barriers, personal protective equipment (PPE), requisite equipment, and available specialized resources, so that all hazards are identified; resource application fits the operational requirements; hazard isolation is considered; risks to rescuers, bystanders, and animals are minimized; and rescue time constraints are taken into account.

Requisite Knowledge

1. *Describe* resource capabilities and limitations
2. *Describe* types and nature of incident hazards
3. *Describe* equipment types and their use
4. *Describe* isolation terminology, methods, equipment, and implementation
5. *Describe* operational requirement concerns
6. *Describe* common types of rescuer and animal risks
7. *Describe* risk/benefit analysis methods and practices
8. *Describe* hazard recognition, isolation methods, and terminology
9. *Describe* methods for controlling access to the scene
10. *Describe* types of technical references

Requisite Skills

1. Identify resource capabilities and limitations
2. Identify incident hazards
3. Assess potential hazards to rescuers and bystanders
4. Place scene control barriers
5. Operate control and mitigation equipment

Content Modification

Block	Modification	Justification

Cross Reference

Course Plan	Training Record	Task Book
<p>Animal Technical Rescue Awareness (2021)</p> <ul style="list-style-type: none"> • Topic 3-2 (RK7) • Topic 3-3 (RK1, RK2, RK3, RK4, RK5, RK6, RK8, RK9, RK10, RS1, RS2, RS3, RS4, RS5) <p>Animal Technical Rescue Technician (2021)</p> <ul style="list-style-type: none"> • Topic 3-2 (RK7) • Topic 3-3 (RK1, RK2, RK3, RK4, RK5, RK6, RK8, RK9, RK10, RS1, RS2, RS3, RS4, RS5) 	<p>Animal Technical Rescue Technician (2021)</p> <ul style="list-style-type: none"> • Skill 8 	<p>Animal Technical Rescue Technician (2021) Instructor Task Book</p> <ul style="list-style-type: none"> • JPR 9 • JPR 22

1-3: Recognizing the Need for Technical Rescue Resources

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.1.3

Job Performance Requirement

Recognize the need for technical rescue resources at an operations- or technical-level incident, given AHJ guidelines, so that the need for additional resources is identified, the response system is initiated, the scene is secured and rendered safe until additional resources arrive, and awareness-level personnel are incorporated into the operational plan.

Requisite Knowledge

1. *Describe* operational protocols
2. *Identify* specific planning forms
3. *Describe* types of incidents common to the AHJ
4. *Describe* hazards
5. *Describe* incident support operations and resources
6. *Describe* safety measures

Requisite Skills

1. Apply operational protocols
2. Select specific planning forms based on the types of incidents
3. Identify and evaluate various types of hazards within the AHJ
4. Request support and resources
5. Determine the required safety measures

Content Modification

Block	Modification	Justification

Cross Reference

Course Plan	Training Record	Task Book
<p>Animal Technical Rescue Awareness (2021)</p> <ul style="list-style-type: none"> • Topic 2-1 (RK3, RS3) • Topic 3-2 (RK1, RK2, RK5, RK6, RS1, RS2, RS4, RS5) • Topic 3-3 (RK4) <p>Animal Technical Rescue Technician (2021)</p> <ul style="list-style-type: none"> • Topic 2-1 (RK3, RS3) • Topic 3-2 (RK1, RK2, RK5, RK6, RS1, RS2, RS4, RS5) • Topic 3-3 (RK4) 	<p>Animal Technical Rescue Technician (2021)</p> <ul style="list-style-type: none"> • Skill 7 (embedded in size up) 	<p>Animal Technical Rescue Technician (2021) Instructor Task Book</p> <ul style="list-style-type: none"> • JPR 8

1-4: Supporting an Operations- or Technical-Level Incident

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.1.4

Job Performance Requirement

Support an operations- or technical-level incident, given an incident, an assignment, an incident action plan, and resources from the tool *cache*, so that the assignment is carried out, progress is reported to command, environmental concerns are managed, personnel rehabilitation is facilitated, and the incident action plan is supported.

Requisite Knowledge

1. *Describe* AHJ operational protocols
2. *Describe* hazard recognition
3. *Describe* incident management
4. *Describe* PPE selection
5. *Describe* resource selection and use
6. *Describe* scene support requirements

Requisite Skills

1. Apply operational protocols
2. Function within an incident management system
3. Follow and implement an incident action plan
4. Report the task progress status to a supervisor or incident command

Content Modification

Block	Modification	Justification
JPR	Changed “tool kit” to “tool cache”.	Agencies don’t have designated animal rescue “tool kits”. They draw from their overall tool cache.

Cross Reference

Course Plan	Training Record	Task Book
<p>Animal Technical Rescue Awareness (2021)</p> <ul style="list-style-type: none"> • Topic 2-3 (RS4) • Topic 3-2 (RK1, RK3, RK5, RK6, RS1, RS2, RS3, RS4) • Topic 3-3 (RK2) <p>Animal Technical Rescue Technician (2021)</p> <ul style="list-style-type: none"> • Topic 2-3 (RS4) • Topic 3-2 (RK1, RK3, RK5, RK6, RS1, RS2, RS4) • Topic 3-3 (RK2) • Topic 3-4 (RS3) 	<p>Animal Technical Rescue Technician (2021)</p> <ul style="list-style-type: none"> • Skill 7 (embedded in size up) 	<p>Animal Technical Rescue Technician (2021) Instructor Task Book</p> <ul style="list-style-type: none"> • JPR 8

Section 2: Operations

2-1: Recognizing Basic Animal Handling and Behavior Principles

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.2.1

Job Performance Requirement

Recognize basic animal handling and behavior principles, given a representative animal, so that the incident is managed, risks to rescuers are minimized, and risks to the animal are minimized.

Requisite Knowledge

1. *Describe* hazard-specific PPE selection and use
2. *Describe* fight/flight behavior principles
3. *Describe* species-specific containment methods and devices

Requisite Skills

1. Select and use hazard-specific PPE
2. Apply species-specific handling principles
3. Identify species-specific behavioral cues

Content Modification

Block	Modification	Justification

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Awareness (2021) <ul style="list-style-type: none">• Topic 2-3 Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Topic 2-1	Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Skill 3	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none">• JPR 4

2-2: Stabilizing a Representative Animal

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.2.2

Job Performance Requirement

Stabilize a representative animal, given a first aid kit and an actual or simulated EMS agency, so that rescuers and a representative animal are protected from hazards, the representative animal's injuries or illnesses are assessed and managed, and the representative animal is delivered to the appropriate EMS provider with information regarding the history of the rescue activity and the representative animal's condition with the assistance of local-policy-determined personnel, when available.

Requisite Knowledge

1. *Describe* animal and scene assessment methods
2. *Describe* animal treatment, methods of physical and chemical immobilization, and packaging methods
3. *Identify* resource availability
4. *Describe* medical information management and communication methods

Requisite Skills

1. Use animal immobilization, packaging, and treatment methods appropriate to the situation
2. Provide animal transfer reports, both verbally and in writing

Content Modification

Block	Modification	Justification

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Topic 6-1	Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Skill 26	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none">• JPR 19

2-3: Performing Triage

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.2.3

Job Performance Requirement

Perform basic-level triage, given triage tags and AHJ protocols, so that determination between rescue and recovery modes are made, triage decisions reflect resource capabilities, severity of injuries are determined, and animal care and rescue priorities are established in accordance with local protocol.

Requisite Knowledge

1. *Describe* types and systems of triage according to AHJ protocol
2. *Describe* resource availability
3. *Describe* methods to determine injury severity
4. *Describe* ways to manage resources
5. *Describe* prioritization requirements

Requisite Skills

1. Use triage materials, techniques, and resources

Content Modification

Block	Modification	Justification

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Awareness (2021) <ul style="list-style-type: none">• Topic 3-2 Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Topic 3-2	Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Skill 7 (embedded in size up)	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none">• JPR 8

2-4: Constructing an Improvised Restraint Device

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.2.4

Job Performance Requirement

Construct an improvised restraint device, given an available rope or accessory cord, so that the device includes a long enough standing end to ensure rescuer control and that the representative animal is able to be led to a safe area.

Requisite Knowledge

1. *Describe* hazard-specific PPE selection and use
2. *Describe* application of knots
3. *Describe* animal halter pressure principles
4. *Describe* rope or webbing material selection
5. *Describe* device positioning techniques on animals

Requisite Skills

1. Select and use hazard-specific PPE
2. Tie knots
3. Construct and rig animal halters
4. Evaluate correct placement

Content Modification

Block	Modification	Justification

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Topic 4-1	Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Skill 10	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none">• JPR 11• JPR 22

2-5: Moving a Representative Animal

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.2.5

Job Performance Requirement

Move a representative animal, in a low-angle environment, as a member of a team, given an incident action plan and basic animal transport equipment, so that hazards are identified, the representative animal is moved without further injury, risks to rescuers are managed, the representative animal securement is maintained, and the objective is attained.

Requisite Knowledge

1. *Describe* types of basic animal transport equipment
2. *Identify* hazards
3. *Describe* hazard-specific PPE
4. *Describe* methods to reduce and prevent further injuries from the environment and/or species-specific securement methods (physical and chemical)
5. *Describe* transport techniques

Requisite Skills

1. Operate transport equipment
2. Assemble and operate environment- or hazard-specific animal removal systems
3. Use transport devices

Content Modification

Block	Modification	Justification
RK2	Changed “hazard identification” to “Identify hazards”.	Grammar consistency.

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Topic 5-2	Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Skill 15	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none">• JPR 15

2-6: Moving a Representative Animal

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.2.6

Job Performance Requirement

Move a representative animal, in a low-angle environment, as a member of a team, given animal transport equipment, litters, and animal removal systems specific to the rescue environment, so that the representative animal is moved without further injuries, risks to rescuers are minimized from both the hazard and the representative animal, the integrity of a representative animal's securement within the transfer device is established and maintained, the means of attachment to the rope rescue system is maintained, and the representative animal is removed from the hazard.

Requisite Knowledge

1. *Describe* types of transport equipment and removal systems
2. *Describe* selection factors with regard to specific rescue environments
3. *Describe* methods to reduce and prevent further injuries from the hazard and from the species-specific hazard
4. *Describe* types of risks to rescuers to include the hazard as well as species-specific hazards
5. *Describe* ways to establish and maintain animal securement (both physical and chemical)
6. *Describe* transport techniques
7. *Describe* rope rigging applications and methods
8. *Describe* types of specialized equipment and their uses

Requisite Skills

1. Secure an animal to transport equipment
2. Assemble and operate environment-specific animal removal systems
3. Choose an incident-specific transport device

Content Modification

Block	Modification	Justification

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Topic 5-2	Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Skill 15	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none">• JPR 15

2-7: Maintaining Rescue Equipment

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.2.7

Job Performance Requirement

Maintain rescue equipment, given maintenance logs and records, tools, resources, manufacturer's guidelines, and organizational standard operating procedures, which should include keeping the large animal technical rescue cache subjected to greater than 600 lb (272 kg) loads separate from the regular cache, so that the operational status of equipment is verified and documented, components are checked for operation, deficiencies are repaired or reported as indicated by standard operating procedure, and items subject to replacement protocol are correctly disposed of and changed.

Requisite Knowledge

1. *Describe* functions and operations of rescue equipment
2. *Describe* use of record-keeping systems
3. *Describe* manufacturer and organizational care and maintenance requirements
4. *Describe* selection and use of maintenance tools
5. *Describe* replacement protocol and procedures
6. *Describe* disposal methods
7. *Describe* organizational standard operating procedures

Requisite Skills

1. Identify wear and damage indicators for rescue equipment
2. Evaluate operation readiness of equipment
3. Complete logs and records
4. Select and use maintenance tools

Content Modification

Block	Modification	Justification

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Topic 6-3	N/A	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none">• JPR 21

2-8: Moving a Representative Animal Load in a High-Angle Environment

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.2.8

Job Performance Requirement

Move a representative animal load in a high-angle environment, as a member of a team, given animal transport equipment, litters, other specialized equipment, and animal removal systems specific to the rescue environment, so that the representative animal is moved without further injury, risks to rescuers are minimized from both the hazard and the representative animal, the integrity of the representative animal's securement within the transfer device is established and maintained, the means of attachment to the rescue system is maintained, and the representative animal is removed from the hazard.

Requisite Knowledge

1. *Describe* types of transport equipment and removal systems
2. *Describe* selection factors with regard to specific rescue environments
3. *Describe* methods to reduce and prevent further injuries from the hazard and from the species-specific hazards
4. *Describe* types of risks to rescuers to include the hazard as well as species-specific hazards
5. *Describe* ways to establish and maintain animal securement (species-specific)
6. *Describe* transport techniques
7. *Describe* rope rigging applications and methods
8. *Describe* types of specialized equipment and their uses

Requisite Skills

1. Secure an animal to transport equipment
2. Assemble and operate environment-specific animal removal systems
3. Choose an incident-specific transport device

Content Modification

Block	Modification	Justification

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Topic 5-3	Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Skill 16	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none">• JPR 16

2-9: Developing a Plan to Release a Representative Animal from Soil Entrapment

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.2.9

Job Performance Requirement

Develop a plan to release a representative animal from soil entrapment, as a member of a team, given an incident, a representative animal load, personal protective equipment, a mud rescue tool *cache*, and specialized equipment, so that hazards to rescue personnel and a representative animal are minimized; considerations are given to animal hypothermia, dehydration, and other injuries; techniques are used to enhance animal survivability; and tasks are accomplished within projected time frames.

Requisite Knowledge

1. *Describe* identification, utilization, and required care of personal equipment
2. *Describe* general hazards associated with mud rescue to both the animal and the rescuers to include adhesive forces
3. *Describe* selection and application of rescue tools and resources
4. *Describe* risk/benefit assessment techniques for extrication methods
5. *Describe* time constraints

Requisite Skills

1. Select, use, and care for personal protective equipment
2. Operate rescue tools and stabilization systems
3. Complete risk/benefit assessments for selected methods of rescue and time restraints

Content Modification

Block	Modification	Justification
JPR	Changed “tool kit” to “tool cache”.	Agencies don’t have designated animal rescue “tool kits”. They draw from their overall tool cache.

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Topic 2-2 (RK5)• Topic 2-3 (RK1, RS1)• Topic 3-1 (RK2)• Topic 3-2 (RK4, RS3)• Topic 3-4 (RK 3, RS2)	Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Skill 24	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none">• JPR 10• JPR 22

2-10: Developing a Plan for an Animal Transport Vehicle Incident

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.2.10

Job Performance Requirement

Develop a plan for an animal transport vehicle incident, given an incident, agency guidelines, and planning forms, so that size-up is conducted and continued throughout the incident; a standard approach is used during training and operational scenarios; hazards are identified; isolation methods and scene security measures are considered; fire suppression and safety measures are identified; vehicle stabilization needs are evaluated; and resource needs, including veterinary personnel, are identified.

Requisite Knowledge

1. *Describe* operational protocols
2. *Describe* specific planning forms
3. *Describe* types of vehicles common to the AHJ boundaries
4. *Describe* vehicle hazards
5. *Describe* animal hazards to the rescuers
6. *Describe* incident support operations and resources
7. *Describe* vehicle anatomy
8. *Describe* fire suppression and safety measures

Requisite Skills

1. Apply operational protocols
2. Select specific planning forms based on the types of vehicles
3. Identify and evaluate various types of vehicles within the AHJ boundaries
4. Request support and resources
5. Identify vehicle anatomy
6. Determine the required fire suppression and safety measures

Content Modification

Block	Modification	Justification

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Topic 2-3 (RK5)• Topic 3-1 (RK3, RK6, RS3, RS4)• Topic 3-3 (RK4)• Topic 3-4 (RK1, RK2, RS1, RS2)• Topic 5-5 (RK7, RK8, RS5, RS6)	Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Skill 25	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none">• JPR 10• JPR 22

2-11: Removing a Packaged Representative Animal to a Designated Safe Area

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.2.11

Job Performance Requirement

Remove a packaged representative animal to a designated safe area, as a member of a team, given an animal transfer device, a designated egress route, and personal protective equipment, so that effort is coordinated, the designated egress routes are used, a representative animal is removed without compromising animal packaging, injury is prevented, and stabilization is maintained.

Requisite Knowledge

1. *Describe* animal handling techniques
2. *Describe* an incident management system
3. *Describe* types of immobilization, packaging, appropriate animal attachment points, and transfer devices
4. *Describe* types of immobilization techniques
5. *Describe* uses of immobilization devices

Requisite Skills

1. Use immobilization, packaging, and transfer devices for specific situations
2. *Use* immobilization techniques, including chemical with the assistance of AHJ designated personnel
3. Apply medical protocols and safety features to immobilize, package, and transfer
4. *Use* techniques for lifting or moving the animal

Content Modification

Block	Modification	Justification
RS2	Added "Use".	NFPA didn't provide a verb.
RS4	Added "Use".	NFPA didn't provide a verb.

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Topic 3-2 (RK2)• Topic 4-2 (RK1)• Topic 4-3 (RK3, RK4, RK5, RS1, RS2, RS3)• Topic 5-2 (RS3)	Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Skill 15	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none">• JPR 12• JPR 13• JPR 15• JPR 16• JPR 22

2-12: Terminating an Incident

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.2.12

Job Performance Requirement

Terminate an incident, given personal protective equipment specific to the incident, isolation barriers, and a tool *cache*, so that rescuers and bystanders are protected and accounted for during termination operations; the party responsible is notified of any modification or damage created during the operational period; documentation of loss or material use is accounted for; scene documentation is performed; scene control is transferred to a responsible party; potential or existing hazards are communicated to that responsible party; debriefing and post-incident analysis and critique are considered; and command is terminated.

Requisite Knowledge

1. *Describe* PPE characteristics
2. *Describe* hazard and risk identification
3. *Describe* isolation techniques
4. *Describe* statutory requirements identifying responsible parties
5. *Describe* accountability system use
6. *Describe* reporting methods
7. *Describe* post-incident analysis techniques

Requisite Skills

1. Select and use hazard-specific PPE
2. Use barrier protection techniques
3. *Use* data collection and record keeping/reporting protocols
4. *Conduct* post-incident analysis activities

Content Modification

Block	Modification	Justification
JPR	Changed “tool kit” to “tool cache”.	Agencies don’t have designated animal rescue “tool kits”. They draw from their overall tool cache.
RS3	Added “Use”.	NFPA didn’t provide verb.
RS4	Added “Conduct”.	NFPA didn’t provide verb.

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Topic 6-2	Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Skill 27	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none">• JPR 20• JPR 22

2-13: Interacting with a Person on the Scene Experiencing an Emotional or Psychological Crisis

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.2.13

Job Performance Requirement

Interact with a person on the scene who is in an emotional or psychological crisis, given an animal emergency situation consistent with the mission of the agency, the policies and procedures of the organization, and a person in a crisis scenario, so that the condition is recognized and communicated to the team, the rescuer is prevented from harm, and the actions of the rescuer do not escalate the incident.

Requisite Knowledge

1. *Describe* indicators of a person in emotional crisis
2. *Describe* typical triggers that can cause individuals to become agitated or anxious
3. *Describe* methods of interacting to prevent harm to the rescuer and the subject
4. *Describe* best practices to de-escalate incidents involving persons in crisis

Requisite Skills

1. *Employ* methods of approach that minimize the risk to the rescuer from subjects whose psychological or emotional state is unknown
2. *Use* interview techniques that provide insight to the motives and state of mind of the subject
3. Communicate and interact with the subject in a manner that does not escalate the incident

Content Modification

Block	Modification	Justification
RS1	Added "Employ".	NFPA didn't provide verb.
RS2	Added "Use".	NFPA didn't provide verb.

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Topic 2-5	Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Skill 5	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none">• JPR 6• JPR 22

2-14: Constructing a Simple Rope Mechanical Advantage System

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.2.14

Job Performance Requirement

Construct a simple rope mechanical advantage system, given an incident, representative animal load, an anchor system, life safety rope, carabiners, pulleys, rope grab devices, and rope rescue equipment, so that the system constructed accommodates the load and reduces the force required to lift the load; operational interference is factored and minimized; the system is efficient; a system safety check is completed; and the system is connected to an anchor system and the load, with recognition a suboptimal static system safety factor (SSSF) might be required to accomplish the rescue.

Requisite Knowledge

1. *Describe* determination of incident needs as related to choosing simple rope systems
2. *Describe* the elements of efficient design for *simple* rope systems
3. *Describe* knot selection
4. *Describe* methods for reducing excessive force to system components
5. *Describe* evaluation of incident operations as related to interference concerns and setup
6. *Describe* rope commands
7. *Describe* rigging principles
8. *Describe* system safety check procedures
9. *Describe* methods of evaluating system components for compromised integrity

Requisite Skills

1. Determine incident needs as related to choosing simple rope systems
2. Select effective knots
3. Calculate expected loads
4. Evaluate incident operations as related to interference concerns and setup
5. Perform a system safety check
6. Evaluate system components for compromised integrity

Content Modification

Block	Modification	Justification
RK2	Changed “compound” to “simple”.	NFPA error.

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Topic 5-1	Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Skill 13	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none">• JPR 14• JPR 22

2-15: Constructing a Compound Rope Mechanical Advantage System

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.2.15

Job Performance Requirement

Construct a compound rope mechanical advantage system, given an incident, a representative animal load, an anchor system, life safety rope, carabiners, pulleys, rope grab devices, and rope rescue equipment, so that the system constructed accommodates the load and reduces the force required to lift the load; operational interference is factored and minimized; the system is efficient; a system safety check is completed; and the system is connected to an anchor system and the load, with recognition to a sub optimal SSSF might be required to accomplish the rescue.

Requisite Knowledge

1. *Describe* determination of incident needs as related to choosing compound rope systems
2. *Describe* the elements of efficient design for compound rope systems
3. *Describe* knot selection
4. *Describe* methods for reducing excessive force to system components
5. *Describe* evaluation of incident operations as related to interference concerns and setup
6. *Describe* rope commands
7. *Describe* rigging principles
8. *Describe* system safety check procedures
9. *Describe* methods of evaluating system components for compromised integrity

Requisite Skills

1. Determine incident needs as related to choosing *compound* rope systems
2. Select effective knots
3. Calculate expected loads
4. Evaluate incident operations as related to interference concerns and setup
5. Perform a system safety check
6. Evaluate system components for compromised integrity

Content Modification

Block	Modification	Justification
RK1	Changed “simple” to “compound”.	Changed to match JPR.

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Topic 5-1	Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Skill 14	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none">• JPR 14• JPR 22

2-16: Managing a Portable Highpoint Anchor and Multiple Compound Rope Mechanical Advantage System in a High-Angle Environment

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.2.16

Job Performance Requirement

Manage a portable highpoint anchor and multiple compound rope mechanical advantage system in a high-angle environment, as a member of a team, given an incident, multiple rope rescue systems incorporating a compound rope mechanical advantage system, a representative animal load to be moved, and a specified minimum travel distance for the load, so that a system safety check is performed; a reset is accomplished, and the movement is controlled; the load can be held in place when needed; operating methods do not stress the system to the point of failure; operational commands are clearly communicated; and potential problems are identified, communicated, and managed.

Requisite Knowledge

1. *Describe* methods to determine incident needs
2. *Describe* types of interference concerns
3. *Describe* rope commands
4. *Describe* safe operating limits of the portable highpoint anchor
5. *Describe* system safety check protocol
6. *Describe* procedures for continued evaluation of system components for compromised integrity
7. *Describe* common personnel assignments and duties
8. *Describe* common commands
9. *Describe* methods for controlling a load's movements
10. *Describe* system stress issues during operations
11. *Describe* animal stress issues during movement
12. *Describe* management methods for common problems

Requisite Skills

1. Determine incident needs
2. Evaluate incident operations as related to interference concerns
3. Complete a system safety check
4. Continually evaluate system components for compromised integrity
5. Direct personnel effectively
6. Operate multiple mechanical advantage systems in balance
7. Communicate commands
8. Analyze system efficiency
9. Manage load movement
10. Identify concerns

Content Modification

Block	Modification	Justification

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Topic 3-2 (RK1, RS1)• Topic 5-1 (RK3, RK8)• Topic 5-3 (RK2, RK4, RK5, RK6, RK7, RK9, RK10, RK11, RK12, RS2, RS3, RS4, RS5, RS6, RS7, RS8, RS9, RS10)	Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Skill 17	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none">• JPR 16• JPR 22

Section 3: Technician

3-1: Moving a Representative Animal Load in an Extended Duration High-Angle Environment

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.3.1

Job Performance Requirement

Move a representative animal load in an extended duration high-angle environment, as a member of a team, given animal transport equipment, litters, and animal removal systems specific to the rescue environment, so that the representative animal is moved without further injuries, risks to rescuers are minimized from both the hazard and the representative animal, the integrity of the representative animal's securement within the transfer device is established and maintained, the means of attachment to the rope rescue system is maintained, and the representative animal is removed from the hazard.

Requisite Knowledge

1. *Describe* types of transport equipment and removal systems
2. *Describe* selection factors with regard to specific rescue environments
3. *Describe* methods to reduce and prevent further injuries from the hazard and from the species-specific hazards
4. *Describe* types of risks to rescuers, including the hazard as well as species-specific hazards
5. *Describe* ways to establish and maintain animal securement (both physical and chemical)
6. *Describe* transport techniques
7. *Describe* rope rigging applications and methods
8. *Describe* types of specialized equipment and their uses

Requisite Skills

1. Secure an animal to transport equipment
2. Assemble and operate environment-specific animal removal systems
3. Choose an incident-specific transport device

Content Modification

Block	Modification	Justification

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Technician (2021) <ul style="list-style-type: none"> • Topic 3-3 (RK3, RK4) • Topic 4-3 (RK, RK5, RS1) • Topic 5-1 (RK7) • Topic 5-3 (RK2, RK6, RK8, RS2, RS3) 	Animal Technical Rescue Technician (2021) <ul style="list-style-type: none"> • Skill 17 	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none"> • JPR 16 • JPR 22

3-2: Completing an Assignment While Suspended from a Rope Rescue System in a High-Angle Environment

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.3.2

Job Performance Requirement

Complete an assignment while suspended from a rope rescue system in a high-angle environment, given a team, a representative animal when raising or lower animals, an assignment, life safety harnesses, litters, bridles, and specialized equipment necessary for the environment, so that risks to animals and rescuers are minimized, the means of attachment to the rope rescue system is secure, selected specialized equipment facilitates efficient rescuer movements, and specialized equipment does not unduly increase risks to rescuers or animals.

Requisite Knowledge

1. *Describe* task-specific selection criteria for life safety harnesses
2. *Describe* personal protective equipment selection criteria
3. *Describe* variations in litter design and intended purpose
4. *Describe* rigging principles
5. *Describe* techniques and practices for high-angle environments
6. *Describe* common hazards posed by improper maneuvering and harnessing

Requisite Skills

1. Select and use rescuer harness and personal protective equipment for common environments
2. Attach the life safety harness to the rope rescue system
3. Maneuver around existing environment and system-specific obstacles
4. Perform work while suspended from the rope rescue system
5. Evaluate surroundings for potential hazards

Content Modification

Block	Modification	Justification

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Topic 5-3 (all RK)• All RS – Students will not work suspended from rope in this course. These skills are part of the Rope Rescue course which is a prerequisite for Animal Technical Rescue Technician	N/A	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none">• JPR 16

3-3: Removing a Representative Animal from a Vertical Depth and Across a Horizontal Path Before Lowering It to a Designated Point

Authority

1. NFPA 1006: Standard for Technical Rescue Personnel Professional Qualifications (2021)
 - Paragraph 10.3.3

Job Performance Requirement

As a member of a team, remove a representative animal from a vertical depth, then across a horizontal path before lowering it to a designated point, given rescue personnel, an established system, a target for the load, a load to be moved, and personal protective equipment, so that the movement is controlled; the load is held in place when needed; operating methods do not stress the system to the point of failure; personnel assignments are made; tasks are communicated; and potential problems are identified, communicated, and managed.

Requisite Knowledge

1. *Describe* determination of incident needs as related to the operation of a system
2. *Describe* capabilities and limitations of various systems
3. *Describe* incident site evaluation as related to interference concerns and obstacle negotiation
4. *Describe* system safety check protocol
5. *Describe* procedures to evaluate system components for compromised integrity
6. *Describe* common personnel assignments and duties
7. *Describe* common commands
8. *Describe* common problems and ways to minimize or manage those problems
9. *Describe* ways to increase the efficiency of load movement

Requisite Skills

1. Determine incident needs
2. Complete a system safety check
3. Evaluate system components for compromised integrity
4. Communicate with personnel effectively
5. Management movement of the load
6. Evaluate for any potential problems

Content Modification

Block	Modification	Justification

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Topic 5-3	Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Skill 18	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none">• JPR 16• JPR 22

3-4: Conducting Helicopter Operations

Authority

1. Office of the State Fire Marshal

Job Performance Requirement

Use a helicopter to move an animal in need of technical rescue, as a member of a team, given an incident, a representative animal load to be moved, appropriate tools and equipment, and a helicopter, so that a system safety check is performed; a reset is accomplished, and the movement is controlled; the load can be held in place when needed; operating methods do not stress the system to the point of failure; operational commands are clearly communicated; and potential problems are identified, communicated, and managed.

Requisite Knowledge

1. Describe when to consider a helicopter operation
2. Describe how to apply a helicopter operation for animal technical rescue
3. Identify the benefits of a helicopter operation
4. Identify the hazards, risks, or limitations of a helicopter operation
5. Describe system safety check protocol
6. Describe procedures to evaluate system components for compromised integrity
7. Describe personnel assignments and duties

Requisite Skills

1. Determine incident needs
2. Complete a system safety check
3. Evaluate system components for compromised integrity
4. Communicate with personnel effectively
5. Management movement of the load
6. Evaluate for any potential problems

Content Modification

Block	Modification	Justification

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Topic 5-3 (RS1, RS2, RS3, RS4, RS5, RS6)• Topic 5-4 (RK1, RK2, RK3, RK4, RK5, RK6, RK7)	Animal Technical Rescue Technician (2021) <ul style="list-style-type: none">• Skill 19	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none">• JPR 17• JPR 22

3-5: Conducting Trailer Operations

Authority

1. Office of the State Fire Marshal

Job Performance Requirement

Extricate an animal in need of technical rescue from a trailer, as a member of a team, given an incident, webbing, rescue straps, a flex guide, ropes, slip sheets, a rescue glide, a representative animal, and a trailer, so that hazards to rescuers and the animal are minimized operational commands are clearly communicated; and potential problems are identified, communicated, and managed.

Requisite Knowledge

1. Describe vehicle anatomy
2. Describe fire suppression and safety measures
3. Describe the dynamics of a trailer incident
4. Identify the best access points for equipment application
5. Describe how to release the dividers from the exterior of the trailer
6. Describe how to handle an animal tethered in a transport vehicle
7. Describe how to attach a long lead line
8. Describe when removal of the animal is and is not appropriate
9. Describe how to apply a rescue strap without entering the trailer

Requisite Skills

1. Determine incident needs
2. Communicate with personnel effectively
3. Management movement of the load
4. Evaluate for any potential problems

Content Modification

Block	Modification	Justification

Cross Reference

Course Plan	Training Record	Task Book
Animal Technical Rescue Technician (2021) <ul style="list-style-type: none"> • Topic 5-3 (RS1, RS2, RS3, RS4) • Topic 5-5 (RK1, RK2, RK3, RK4, RK5, RK6, RK7, RK8, RK9) 	Animal Technical Rescue Technician (2021) <ul style="list-style-type: none"> • Skill 20 	Animal Technical Rescue Technician (2021) Instructor Task Book <ul style="list-style-type: none"> • JPR 18 • JPR 22