



® Technical Large Animal Emergency Rescue TLAER™ Equipment Recommendations

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NOTE: The equipment listed below is intended for use by personnel with certified training and ongoing training in technical large animal emergency rescue. Use of this equipment without adequate or appropriate training can result in serious injury or death. **This equipment list is provided in preparation for the AWARENESS and OPERATIONS combined level course.**

Personal Gear Recommendations For ALL Participants

WEAR FOR THE COURSE (REQUIRED):

- Gloves
- Boots (with or without steel toe)
- Protective headwear (helmet with chinstrap; firefighter or OSHA approved is preferred)

IN THEIR KIT BAG (Recommendations):

- Jacket or Vest (Brightly colored and Reflective)
- Goggles or other appropriate eye protection
- Knife or Leatherman type multi-tool
- Ear protection
- Urban Type uniform (T-shirt, BDU pants, boots) with your logo to identify yourself
- Primary and Secondary ID Badge / Card

TLAER Rescue Equipment Requirements for an OPERATIONS Course

Our philosophy is that if you do not have the equipment and gear that you need to form a Large Animal Rescue team, that you are wasting your time hosting a course because when it is over, you will not have what you need to perform rescues and get others involved.

This is a MINIMUM list of REQUIRED equipment that you should have in order to run a TLAER, Inc. Operations Course. *We have reduced the honorarium for the teaching of this course so that you spend money on the equipment, instead of mileage fees for me bringing mine.*

CLASSROOM DEMONSTRATION MATERIALS:

- 1 - Skull of a large animal (vet school, vet clinic, museum, etc.) **Not Required.**
- 1 - Leg Bone of a large animal or even better a freeze-dried preparation (**not required**)
- Examples of Trailer Ties commonly used in Horse Trailers
- Pieces of Hay String
- 2 - Breyer™ Plastic horses and various Plastic horse trailer, truck, etc. toys
- Lengths of rope (20 feet / 6 meters)
- SPEAKERS for computer

PRESENTATION SCREEN – bright as possible – there is nothing worse than a crappy projector / screen
PRESENTATION LCD PROJECTOR - If the classroom is bright (too many windows) then cover windows

LIVE ANIMALS:

2 – Horses - calm around strangers and generally good natured - at least one of the horses (**OPTIONAL**) be capable of being sedated / anesthetized by a veterinarian during the course for various lifts and loading onto the Rescue Glide.

A few goats and cattle available for teaching containment and handling as a herd are fantastic for training. Llamas are also wonderful options for teaching these concepts.

CONTAINMENT, HANDLING AND RESTRAINT:

1 - Large Animal First Aid Kit (get with local large animal vet for recommendations)

3 - Emergency rope halters (1/2" kernmantle rescue rope to make a 15 to 20 foot long)

Normal halters used around large animals

1 - Insulated horse blanket (heavy duty)

1 – Horse whole head protection (or human life vest, towel, sweat shirt, etc.) to protect the eyes

1 - Large animal physical restraint (examples for demonstrations)

1 – Large animal chemical restraint (coordinate with a veterinarian for this!)

1- 33 meter (100') containment portable fencing (snow or construction fencing with PVC handles every 10 feet)

1 or 2 – Horse Trailer for student observation, safety evaluation and loading demonstrations

1 – Plastic Bag and a long Stick

MANIPULATIONS

2 – 10m x 8cm (30' x 4") nylon web with sewn loops on each end

2 - 7m x 8cm (20' x 4") wide nylon web with sewn loops on each end

Backboards / “Pig Boards” or something similar

Various Straps (Tow straps / Ratchet Straps)

1- Boat hook, extendable to 3 meters (10 feet) or pike pole (Long painters’ poles with interchangeable accessories (cutters, carabiner hold-open, S-hook, etc.)

1 – Leg handling cane, extendable to 2 meters (6 feet)

1 – Hampshire Strop guide (steel or aluminum 7cm (3 inch) wide, flat that is 2 meters (6 feet) long, cold rolled to maintain shape, with handle at one end and metal loop at the other)

SIMPLE VERTICAL LIFT EQUIPMENT

- 2 – 2 m x 10 cm (6’ x 6”) wide fire-hose web with sewn loops on each end
- 1 – Western girth (28 inches long) (with sturdy hardware) normal size
- 1 – Fleece-lined or Neoprene girth (20 inches long) (with sturdy hardware) for pony size OR
- 1 – Dr. Becker’s HAST simple web vertical lift sling <https://rescue.hastpsc.com/products/products.html>
AND 1 – Becker’s Spread bar with snap shackles 1.2 meter for overhead vertical lift (aluminum, steel, or a 4”x4” post 4 feet long with holes for U bolts at the MARKINGS)
- <https://4hoovessmart.com/online-store-1> is another source for equipment
- <https://www.ebsprescue.com/> is another source of equipment (in Canada)
- LOOPS sling system - <https://loopsrescue.com/> is an economy sling option

MUD RESCUE:

- 1 set – Air injectors 1.2 meters (5 feet) long with air lines and manifold/regulator and
- 1 - Portable air tank or air bottle from Fire service /SCUBA, etc. OR
- 1 set – Water injectors / Mud Lances 1.2 meters (5 feet) long with water hoses and manifold, connection to water source or fire truck (METRIC or STANDARD?) AND
- 1- Nickopolous needle (conduit or stainless steel, bent into the shape of a “C” on a 36” diameter, with or without water hose / air hose attachment)

- 2+ - Sheets of plywood
- <https://rescue.hastpsc.com/products/products.html> is a source of equipment
- <https://4hoovessmart.com/online-store-1> is another source for equipment
- <https://www.ebsprescue.com/> is another source of equipment (in Canada)

A FRAME / VERTICAL LIFT (MANUAL) and TRAILER STABILIZATION:

- **SMALL 2 horse trailer or similar that we can TURN OVER ONTO ITS SIDE.**
- 12 – Large steel carabiners (1.45” gate opening)
- 12 – Medium steel carabiners (???? gate opening)
- Pulleys
- 2 double pulleys
- 2 – 33 meters (100’) of ½” kernmantle rescue rope
- 1 – 66 meters (200’) of ½” kernmantle rescue rope
- 1 – 99 meters (300’) of ½” kernmantle rescue rope
- 1 – 99 meter (300’) of 5/8” rescue rope
- 1 – A-frame (steel or aluminum) and / or Tripod (16 feet high minimum but 20 feet is better) OR large BackHOE or TRACKHOE
- 2 - Gathering plates
- 1 set - Anchor straps 12 foot preferred
- 1 – Friction Brake – Tube
- 1 – Becker Sling Vertical Lift kit (with accessories and overhead)
- 1 – heavy duty Picket ground anchor system (with windlasses, rods and driver)
- 6 – 2,3,4 meter (6’-12’) Prusik loops of 1/2” static kernmantle rope (usually slightly smaller than the diameter of the rope attached to) <http://www.rocknrescue.com/acatalog/Prussik-Loop-Material-Guide.html> Need 2 sets of Prusiks of each length to provide the pairing
- <https://rescue.hastpsc.com/products/products.html> is a source of equipment
- <https://4hoovessmart.com/online-store-1> is another source for equipment
- <https://www.ebsprescue.com/> is another source of equipment (in Canada)

RESCUE GLIDE/SKED for moving animal on the ground surfaces:

- 1 – Rescue Glide or Sked kit (with accessories)
- 1 - Leg Handling Cane
- 4 – Towels for blindfolds and preventing rope and ratchet injuries
- 1 – Set of leg wraps (polo bandages and quilted wraps) for bandage under Splint
- <https://rescue.hastpsc.com/products/products.html> is a source of equipment
- <https://4hoovessmart.com/online-store-1> is another source for equipment
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SEARCH AND RESCUE:

1 - Set of 2 way Radios or Walkie Talkies for communication (4 minimum for IC, Ops, Safety, and Logistics)
 Maps of the Area to be Searched (copies for searchers)
 Personnel Accountability Board with tagging system

GENERAL:

3 - Heavy Duty Tarps (if needed to lay on ground to protect animal when dragging or placement is on hot / cold surface)
 Rolls of Duct Tape
 Truck with Portable Winch (minimum 3,000 pounds) with Pulley
 Various - chocks, shoring and cribbing / lumber pieces of various sizes

1 – Power generator to provide lighting and electrical for extrication equipment

1 - Set of Portable Flood lights

WHEELED BOXES for all of your gear and equipment

REALLY NEED TO HAVE FOR THE TRAINING:

MANNEQUIN

- *Randy the Horse Rescue Mannequin* for outdoor demonstrations – CAN be shipped to your location by me – estimates is \$800 each way for shipping and needs to be coordinated well in advance.

OR:

- *Mud Rescue Horse* (made with a 55 gallon drum with PVC head and neck, and wooden legs with glued on “hooves”) for outdoor demonstrations

OR:

PLASTIC HORSE Full size for demonstrations inside

OTHER RECOMMENDATIONS FOR YOUR KIT – but not required for the course:

3 – 4 liter (1 gallon) jug of water-based lubricant or liquid soap

Assorted hand tools (shovels, hand saws, screwdrivers, hammers, wrenches, pliers, etc.)

1 - Chain saws

12 - Steel cattle panels

1 - Cordless reciprocating saw of GOOD QUALITY with extra carbide blades and batteries

2 - Rolls of Duct tape

2 – 1.2 m x 10 cm (4’ x 6”) wide fire-hose web with sewn loops on each end (for pony size)

MORE various - chocks, shoring and cribbing / lumber pieces of various sizes

LOCAL Resource Manual (List of local and regional contacts for responding veterinarians, people with trailers and cattle panels, etc.)

Fleece / Wool lined Shipping Boots (for leg protection and padding if needed)

Water Bucket / Container (or buckets for various purposes as well)

Hay / Treats

1 – Kimzey® aluminum leg splint

1- King size bed sheet (dark color) or painter’s drop cloth of heavy thickness (dark colored)

9 – Leg splints of different sized made of 4” PVC pipe

1 – Portable winch (minimum 1500k or 3000 lbs.) with pulley

1 – pre-rigged 9:1 1/2” rope anchor system (with 2 double pulleys and prussik loops)

1 – 300’ of 1/2” Kernmantle rope

OPTIONAL:

1 – Anderson® sling with accessories for vertical helicopter lift

1 – Inflatable Rescue Path (surface ice, water, mud use)

1 – All-terrain vehicle with winch

1 - Large Animal Ambulance (4 horse stock trailer with ramp and truck) or small trailer

1 – 5 m supply air-inflatable fire-hose with Storz caps to make Equine Floatation Device

1 – Becker HAST Equine Floatation Device

1 - Human Water Rescue equipment (life jackets, helmets, gloves, dry suits, floating rope)

1 - Captive Bolt heavy duty (Humane Euthanasia Device)

1 – low pressure air bags

1 – high pressure air bags

Various Rescue and belay packs to lower rescuers

Lots of extras – you could add more hardware, rope, rope bags, ladder belts for edge safety, canvas edge pads to protect the ropes.

MEDICAL OPTIONAL:

- 1 – FLUID / OIL ADMINISTRATION Nasogastric tube
- 2 – Equine Catherization Kit
- 1 – Equine Crash Kit

MISCELLANEOUS OPTIONAL:

- Rope identification labels
- ID labels and colored tape for ID of your kit
- Liquid detergent and long-handled brushes
- Inventory tags
- Cones / Flashers / Reflective Tape
- Backpack-type rescue storage bags
- Car-size tire inner tubes with can of Fix-a-flat
- More 8' x 10' waterproof canvas tarps for staging equipment, sliding animal, etc.
- 1 - Catch pole for small animals and crates for safely transporting them
- Digital camera for documentation
- Video camera for documentation
- Transport boxes for equipment (wheeled is preferred)
- Chemical capture equipment (consult veterinarian and get certification training for this)
- Caution Tape // Do Not Cross Tape
- Notebook or other essentials needed for documentation purposes
- Develop forms and SOPs
- Liability / Permission Forms
- Develop a Unit Logo
- Copy of SOPs / SOGs (to show emergency services on-scene what the “BASIC plan of action” is and what is needed to perform the rescue)
- Copy of SOPs / SOGs (to show emergency services on-scene what the “INTERMEDIATE plan of action” is and what is needed to perform the rescue)
- Copy of SOPs / SOGs (to show emergency services on-scene what the “ADVANCED plan of action” is and what is needed to perform the rescue)

Advanced KIT BAG Recommendations:

MUST HAVE PREVIOUS CERTIFIED TRAINING in these specialties!

- Protective fire clothing (wildland fire / Nomex-type clothing is very suitable)
- Human Body Harness (NFPA class II/III)
- Human Safety Vests with Identification
- Level A/B/C HazMat suit and personal DECON equipment with certification card
- Swift / flood water rescue gear (personal flotation device, wet and/or dry suit, boots, water helmet, gloves, throw bag) and certification card
- Surface ice rescue gear (personal flotation device, surface ice rescue suit, boots, helmet) with certification card

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