

World Rescue Organisation



Trauma Challenge & Extrication Challenge

Equipment List

Brasil 2026

Project: WRO Documentation

Release: june 2026

Date: 11th june 2026

Product Title: **Equipment List 2026 v1.0**

Identifier:

Author: WRO Committee

Owner: WRO Executive

Client: ANSD Portugal

Document Ref: WRO/DOC2024/Equipment V1.1

Version No: One (2026)

Copyright © 2017 World Rescue Organisation
Permission granted to reproduce for personal and training use only.
Commercial use, copying, hiring and lending is prohibited.
Any unauthorised use will constitute an infringement of copyright

Trauma Challenge Equipment List

The following equipment will be standard **in each pit** during the WRC 2026. All teams must use this equipment.

Teams may select appropriate equipment from the trauma kit bags supplied.

Airway & Breathing Equipment

- 1 x Set Oropharyngeal Airways
- 1 x Suction unit, battery powered with tubing
- 1 x Pocket Mask
- 1 x Disposable Bag and Mask (Adult & Child)
- 2 x 99% - 100% Non-Rebreathing Disposable Adult Mask
- 1 x 99% - 100% Non-Rebreathing Disposable Child Mask
- 1 x Resuscitator/ O2 therapy unit and O2 Cylinder

Circulation Equipment

- 2 x CAT Tourniquet
- 1 x Defibrillator
- 2 x Quick-Clot (Z-fold haemostatic dressing)

Disabilities

Exposure Equipment

- 1 x Blanket

Spinal & Pelvic Care

- 1 x Longboard
- 1 x Scoop stretcher
- 1 x Medical collars
- 1 x Pelvic sling
- 1 x Vacuum Mattress

Trauma Equipment

- 10 x Gauze Pads, different sizes
- 12 x Elastic wrap bandages, different sizes
- 8 x Sterile gauze bandages, different sizes
- 4 x Triangular bandages, different sizes
- 2 x Adhesive tape
- 1 x Asherman Chest Seal or equivalent
- 1 x Set Trauma splints, SAM-splints or similar
- 1 x Set vacuum splints

Diagnostic & Personal safety equipment

Disposable non-sterile gloves

- 1 x Protective glasses
- 1 x Stethoscope
- 1 x Sphygmomanometer
- 1 x Pulse Oximeter
- 1 x Blood glucose meter
- 1 x Body temperature thermometer
- 1 x Pupil torch
- 1 x Scissors / Tuff Cut Shears
- 1 x Pen
- 1 x Adhesive Tape

Teams are expected to supply their own consumables (e.g. PPE, tapes, sprays, etc.). Teams may bring a limited amount of tools and/or equipment for use in any of the pits. All of these items, including personal equipment belts and contents, must be scrutinised by Assessors at a time and place determined by the organisers/hosts, prior to the commencement of the WRC.

Items supplied in the trauma bag, which perform a similar function to equipment that teams introduce, will be removed. This is to ensure that teams bringing additional equipment do not gain a quantity advantage.

Teams wishing to introduce their own equipment should speak to the Trauma Lead at the team briefing to gain approval. Approval cannot be given on the day of the challenge. A meeting will be facilitated one month prior to the WRC

The hosts local rules may apply in the prohibition of certain items of equipment and should this be the case all teams will be informed prior to the Challenge. All team members should make themselves familiar with any tool that they may use at the WRC.

Extrication Challenge Equipment List

The following equipment will be standard in each of the three pits during the WRC 2026. All teams must use this equipment.

Fire Fighting

1 Extinguisher

Ancillary Equipment

1 Thermal imaging camera

1 Gas detector

1 Electric vehicle safety kit

1 Emergency plug

Spill Management

1 Bucket with absorbent material

1 Large dust bin to collect debris

1 Shovel

1 Broom

Safety Equipment

5 Traffic cones

Protection Equipment

1 Tear drop extension (hard protection on a stick)

2 Tear drop - hard protection

2 Airbag protection (appropriate size)

2 Soft protection sheet

1 Screen sheet (for glass management)

2 Sharps covers complete sets

3 Tarpaulin (sheets) for equipment and debris

1 Adhesive yellow film (Packexe)

Glass Management

1 Glass punch/hammer

2 Duct tape

1 Glas-Master saw

1 Roll Adhesive film (Packexe)

Small Gear

1 Halligan tool (extrication fork)

3 Rope ratchet

4 Ratchet straps

2 Tie down hooks

1 General purpose line (8mm, 10 meters)

1 Seat belt cutter

Tool Kit

1 Bolt cropper

1 Toolbox

- 3 Screw driver slotted,

- 3 Screw driver posidrive,
- 3 Screw driver torx
- 1 Hacksaw & blades
- 1 Set of spanners
- 1 Adjustable spanner
- 1 Adjustable wrench
- 1 Set of pliers
- 1 Socket wrench + 14 pieces Set
- 1 Ratcheting Wrench Socket Set

Stability Equipment (required)

- 1 Set composite stabilization (Qty may vary, but will be equal for all teams)
 - 8 Blocks 75 mm height (3"thick)
 - 8 Blocks 50 mm height (2"thick)
 - 8 Blocks 25 mm height (1"thick)
 - 12 Wedges (different width)
 - 4 Step blocks
- 1 Set composite Cribbing 600mm length (minimum)
 - 16 Block stacks 70mm height X 100mm large (minimum) 3"x4"(minimum)
 - 12 Block stacks 30mm height X 100mm large (minimum) 1"1/2x4"(minimum)
 - 8 Wedges compatible
- 1 Rubber mallet
- 4 Stabilization struts
- 1 Extrication Platform

Stability Equipment (recommended)

- 1 Set wood Cribbing 600mm length (minimum)
 - 36 Block stacks 70 mm height X 100mm (minimum) 3"x4"(minimum)
 - 8 Block stacks 30mm x 100mm height (minimum) 1"1/2 x 4"(minimum)
 - 12 Wedges compatible

Pneumatic Equipment

- 1 Set (2) 12 tonne (270mm lift approx.) High Pressure Air Bags
- 1 Set (2) Inflation hoses
- 1 Air Regulator (DIN or CGA valve connector as required by country)
- 1 Set of Air Chisels and Unit
- 1 Controller unit
- 1 Double deadman controller (supplier dependent)
- 1 Set (2) shut-off valve, shut-off + safety valve
- 1 Pressure reducer
- 2 Compressed air cylinder (DIN or CGA valves)
- 1 Compressed Air cylinder storage rack for safe storage and movement of compressed air cylinders

Lifting Equipment

- 2 Hi-lift rescue jacks or similar with handle securing strap

Battery Power

- 1 Reciprocating saw
- 2 Spare batteries
- 2 Long saw metal blades (Tooth spacing [mm] 3 / Total length [mm] 225)
- 2 Short saw metal blades (Tooth spacing [mm] 3 / Total length [mm] 150)
- 1 Impact driver with socket set
- 1 Cone drill bit
- 1 Extension for socket set
- 1 Set Bits (all types)
- 1 Nibbler
- 1 Spare battery
- 1 Band saw
- 2 spare batteries

Medical Equipment

- 2 Long spine board or Combi carrier II
- 1 Short spine board
- 2 Set Head blocks
- 1 Scoop stretcher or Combi carrier II
- 1 Set of Medical collars
- 1 Pelvic Sling
- 1 BOA extrication device or similar
- 2 Medical blanket
- 1 Vacuum Mattress
- 1 Set Vacuum fracture splints
- 6 SMART Triage packs
- 1 Trauma bag (this should include the trauma equipment listed below)

Trauma Bag Equipment

- 1 Set Oropharyngeal airways
- 1 Pocket mask
- 1 Disposable Bag and Mask (Adult & Child)
- 2 99% - 100% Non-Rebreathing Disposable adult mask
- 1 99% - 100% Non-Rebreathing Disposable child mask
- 1 Resuscitator/ O2 therapy unit and O2 Cylinder
- 2 CAT Tourniquet
- 2 Quick-Clot (Z-fold haemostatic dressing) (Simulated for cost purposes)
- 1 Blanket
- 2 Towels
- 10 Gauze Pads, different sizes
- 12 Elastic wrap bandages, different sizes
- 8 Sterile gauze bandages, different sizes
- 4 Triangular bandages, different sizes
- 2 Adhesive tape
- 1 Asherman Chest Seal or equivalent (Simulated for cost purposes)
- 1 Set Trauma splints, SAM-splints or similar
- 1 Kit Body Fluid spillage
- 1 Pentrox/ Methoxyflurane (Training device)
- 1 Burns Kit (Trauma kit)
- 2 Bags Saline 1ltr or equivalent

- 1 Cling wrap
- 1 Burns dressing
- Disposable non-sterile gloves
- 1 Protective glasses
- 1 Stethoscope
- 1 Sphygmomanometer
- 1 Pulse Oximeter
- 1 Blood glucose meter
- 1 Body temperature thermometer
- 1 Pupil torch
- 1 Scissors / Tuff Cut Shears
- 1 Pen
- 1 Adhesive Tape
- 1 Suction unit, battery powered with tubing
- 1 Defibrillator

Hydraulic Rescue Tools Accessories

- 1 RAM support
- 1 RAM extensions (as provided by manufacturer)
- 1 Lifting support (as approved by tooling manufacturer)

Hydraulic Rescue Tools

- 1 Set chosen by teams¹, including:

- 1 Cutting device
- 1 Large spreading device
- 1 Ramming device
- 1 Small cutting device e.g. pedal cutter

- 1 power unit (combustion or electric powered unit), depending on availability (if required)
- 2 hoses (10m) (if required)

If battery powered tools are chosen and in order to treat all the teams equally, the battery-powered tool will be complimented by:

- 1 battery powered unit,
- 1 hose 10m,

These are for tools that are not available as battery powered tools, e.g. small cutting device

Please note that all the above equipment will be stowed on pallets within the pit area. Teams will choose their hydraulic gear prior to the challenge. During tool preparation phase, the team will not be allowed to organize the equipment in the pit. Teams will have access to the pictures of the tools placement.

The Technical Assessor will sign off the equipment before each scenario.

Trauma and Medical team members will check equipment in isolation and bring the Trauma bags with them to the pit.

¹ The use of battery hydraulic tools is dependable on availability during tool staging period.

Personal Equipment

Teams may bring a limited amount of personal equipment. All the additional equipment has to fit in a “EUROBOX” with the following measurements (600 mm length, 400 mm width and 320 mm height). **No personal hydraulic equipment is allowed.**

Teams are responsible for providing their own dust mask, medical gloves, goggles and ear defenders as appropriate. [1 set]

Items supplied in the trauma bag, which perform a similar function to equipment that teams introduce, will be removed. This is to ensure that teams bringing additional equipment do not gain a quantity advantage.

The hosts local rules may apply in the prohibition of certain items of equipment, and should this be the case all teams will be informed prior to the Challenge. All team members should make themselves familiar with any tool that they may use at the WRC.