



**WORLD RESCUE CHALLENGE 2026**

# Technical Extrication Challenge Guidelines

**Rio de Janeiro, Brazil**

Technical team discipline  
20-minute challenge  
Version 1.2 | August 2026



## Document control

| Field                        | Detail                                                               |
|------------------------------|----------------------------------------------------------------------|
| <b>Project</b>               | WRO Documentation                                                    |
| <b>Release</b>               | August 2026                                                          |
| <b>Product title</b>         | Technical Extrication Challenge Guidelines - WRC 2026 Rio de Janeiro |
| <b>Author</b>                | WRO Committee                                                        |
| <b>Owner</b>                 | WRO Executive                                                        |
| <b>Operational authority</b> | WRO Director of Operations and WRO Extrication Lead                  |
| <b>Client</b>                | World Rescue Challenge 2026 - Rio de Janeiro, Brazil                 |
| <b>Document reference</b>    | WRO/DOC2026/Technical Challenge Guidelines v1.0                      |
| <b>Version</b>               | 1.2 (2026)                                                           |
| <b>Status</b>                | Publication edition                                                  |

## Authority and application

These guidelines apply to the Technical Extrication Challenge at the World Rescue Challenge 2026 in Rio de Janeiro. They supplement the WRO Extrication Challenge Guidelines. For this discipline, these guidelines define the challenge format, team roles and assessment boundaries.

If there is a conflict between these guidelines and a local event arrangement, the matter will be referred to by the WRO Director of Operations and the WRO Extrication Lead. Their decision for the conduct of the challenge will be final.

## Reference documents

- WRO Extrication Challenge Guidelines - WRC 2026 Brazil, version 1.2.
- WRO Technical Assessment Guidelines, version 1.3, June 2026.
- WRO Technical Assessment Score sheet, version 1.2.

**Copyright.** Copyright © 2026 World Rescue Organisation. Permission is granted to reproduce this document for personal and training use only. Commercial use, copying, hiring and lending are prohibited without WRO permission.

## Contents

| Section           | Subject                                                             | Page    |
|-------------------|---------------------------------------------------------------------|---------|
| <b>1-4</b>        | Foreword, purpose, aims and definitions                             | 4       |
| <b>5-7</b>        | Challenge format and team membership and Technique allocation       | 5       |
| <b>8-10</b>       | Challenge flow and operating expectations and Safety / PPE          | 6       |
| <b>11-13</b>      | Tools and equipment, completion requirements, assessment principles | 7       |
| <b>14-15</b>      | Application of the technical sheet and results                      | 8       |
| <b>Appendix A</b> | Team quick guide                                                    | 9       |
| <b>Appendix B</b> | Assessment focus matrix                                             | 10      |
| <b>Appendix C</b> | Menu of Allocated Techniques                                        | 11 - 12 |

## Key challenge facts

|                                |                                                                                                                                |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| <b>Purpose</b>                 | To combine 2 Extrication Teams to simulate team work at an RTC Incident. Assessment of technical extrication performance only. |
| <b>Duration</b>                | 20 minutes.                                                                                                                    |
| <b>Allocated work</b>          | Team assessment to complete a Technical Challenge which will include 3 allocated technical techniques.                         |
| <b>Consistency</b>             | Each team will be tasked with 3 techniques, 1 from each of the 3 menus.                                                        |
| <b>Scored participants</b>     | 6 technical operatives.                                                                                                        |
| <b>Non-scored participants</b> | Incident Commander, casualty and Medic.                                                                                        |
| <b>Patient removal</b>         | Not required.                                                                                                                  |
| <b>Assessment</b>              | Applicable criteria from the standard WRO Technical Assessment Sheet.                                                          |

## 1. Foreword

The World Rescue Challenge provides a global learning platform for emergency responders. The Technical Extrication Challenge develops this purpose by concentrating on the safe and effective performance of defined technical techniques.

The challenge is a focused technical discipline. It allows assessors to observe how a team prepares, controls hazards, understands the vehicle, operates rescue tools, applies techniques and manages time.

## 2. Purpose

These guidelines explain the operating and assessment requirements for the Technical Extrication Challenge. They are written for competing teams, assessors, pit staff and event officials.

**Scope.** Only the technical operatives will be scored. Incident command performance, clinical treatment and casualty extrication are outside the scored scope of this challenge.

## 3. Aims

The Technical Challenge is designed to replicate an RTC incident that emergency response crews maybe called to attend. It will bring teams from around the world to work together in a unique challenging environment.

The Challenge will create an environment where teams can perform extrication techniques, demonstrate a range of skills and options all centered around casualty care;

- Learning and education in all facets of extrication is promoted
- Promote a safety-first approach to technical extrication.
- Develop understanding of contemporary vehicle construction, restraint systems, power systems and stored energy.
- Demonstrate controlled and competent rescue tool operations.
- Assess the correct application and sequence of selected techniques.
- Encourage purposeful progress within a fixed time, without reducing safety.
- Create a consistent global learning opportunity for technical rescuers.

## 4. Definitions

| Term                        | Meaning                                                                                                                                                                |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Technical operatives</b> | The 4 team members who perform the allocated technical work and whose performance is scored.                                                                           |
| <b>Incident Commander</b>   | Maintains oversight and supports safety. This role is required but is not scored.                                                                                      |
| <b>Medic</b>                | A team member who creates the normal working interface between technical rescuers and casualty care. This role is not scored.                                          |
| <b>Casualty</b>             | A team member positioned in or near the vehicle to represent a person affected by the technical work. This role is not scored and the casualty will not be extricated. |

## 5. Challenge format

Each team will complete one 20-minute Technical Extrication Challenge. During that period, the technical operatives will be required to complete 3 separately allocated techniques.

- The 3 techniques may be independent and may not form one continuous extrication plan.
- Completion of 1 technique may not create a direct advantage for the next technique.
- The team is not required to remove the casualty from the vehicle.
- The team remains responsible for normal vehicle stabilization, hazard control, glass management, worked-area protection and casualty protection where these are required by the vehicle position or chosen technique.
- The technical environment should resemble safe, normal road traffic collision operations, even though clinical care and command are not scored.

## 6. Team membership and roles

Two WRC Extrication teams will be chosen to combine skills and work together at a simulated incident. The team information will be released with the timetables.

**From the 2 combined teams, the united team must nominate –**

1 Incident Commander

4 x Technical rescuers (2 from each original team)

1 x Medic

1 x Casualty (the casualty and Medic should not be from the same original team)

A maximum of 2 x interpreters are permitted to each Technical Challenge scenario. The interpreter/s must translate accurately and must not coach, prompt or assist the team.

**Scoring boundary.** Assessors will not award or deduct marks for the Incident Commander's command style or for the clinical performance of the Medic. The technical operatives remain accountable for their own safety actions, communication and response to warnings.

## 7. Selection and allocation of techniques

The 3 allocated techniques will be selected by the appointed WRO technical assessors and the WRO Director of Operations immediately before each Technical Extrication scenario begins. 1 allocated technique will be chosen from each of the 3 listed technique menus. To the best of their ability, the Assessor team will attempt to choose similar expectations and equivalent vehicle conditions for each team.

- The selected techniques will not be disclosed to teams until they arrive in the pit, before the timed period starts.
- No separate planning period will be provided.
- The team may decide the order of the three techniques. The chosen sequence will form part of the assessment of technical progression and time management.
- The team must not perform additional destructive work that is unrelated to the allocated techniques, unless it is necessary to create a safe working condition and is accepted by the assessor.

## 8. Challenge flow

1. The combined team reports to isolation at the time stated on the schedule (approx. 30 minutes before the start of their challenge)
2. The combined team must complete the safety sheet in the isolation area.
3. The casualty leaves isolation and reports to the pit 10 minutes before the start of their challenge
4. The Incident Commander receives the scenario briefing at the pit
5. The assessor identifies the vehicle, the casualty position and the 3 allocated techniques required
6. The Incident Commander confirms they understand the allocated techniques required and any stated limitations.
7. On the official start whistle, the 20-minute clock begins.
8. The IC, Medic and 2 of the Technical Rescuers enter the pit (one from each original team)
9. After 6 minutes being signaled by the Assessor, the other 2 technical rescuers enter the pit (one from each original team) This is to simulate a staggered response to an incident and the teams ability to adapt and communicate.
10. At 20 minutes, or if completed earlier **the Incident Commander** calls "DONE" all work stops and tools are made safe.
11. The team assists in the safe removal of the casualty and assist with resetting all tools.
12. The assessor checks with the Incident Commander that the team are fit and well.
13. This marks the end of the team's Technical Challenge, there is no debrief and questions to the assessor/s will not be facilitated.

## 9. Operating expectations

- Complete an initial risk survey and continue to reassess during the work.
- Stabilise the vehicle to the level required for safe access and tool operation. Add or adjust stabilisation when the vehicle condition changes.
- Manage glass only where it is affected by the allocated work or where it creates a foreseeable hazard.
- Make safe and appropriate entry for your medic.
- Provide appropriate soft and / or hard casualty shielding before exposure to debris, movement, tools or sharp edges.
- Give clear warnings, obtain acknowledgement and coordinate tool movement with the Medic and other team members.
- Protect all cut, torn, crushed or exposed vehicle areas throughout the work.

## 10. Safety and personal protective equipment

Safety is the first requirement of the challenge. A fast result will not compensate for uncontrolled risk. Teams must use a safe system of work that protects the casualty, Medic, technical operatives, Incident Commander, assessors and pit staff.

### 10.1 Personal protective equipment

Rules of the World Rescue Challenge apply to PPE at all times

## 10.2 Real emergency stop

**FOR REAL.** Any person may call 'FOR REAL' or use the repeated whistle signal for a genuine safety issue. Stop immediately, control loads, release tools and follow assessor instructions. The clock will stop until the area is safe.

## 11. Tools and equipment

A standard vehicle extrication equipment provision will be available in the challenge pit. The final equipment list and familiarisation arrangements will be similar to that of a WRC extrication pit, however this will be confirmed by the host and WRO before the event.

- Tool make, model and power source may vary according to host and sponsor availability.
- Each operator must be competent to use any tool they select.
- Teams must inspect tools before use and report missing, damaged or unserviceable equipment immediately.
- Teams may not introduce additional technical equipment unless it has been approved through the WRO process and made available on equal terms to all teams.
- Teams must provide their own approved personal protective equipment and personal consumables.

## 12. Completion requirements

Allocated techniques will be treated as complete only when the assessor can observe the required technical outcome and the work has been left in a controlled condition.

- **Objective:** The allocated technique, movement, removal, opening or space-creation result has been achieved.
- **Stability:** The vehicle and affected components remain stable. Stabilisation has been reassessed after movement.
- **Hazards:** Relevant energy, sharp edges, debris and exposed systems are controlled.
- **Casualty:** The casualty and Medic have remained protected. No casualty removal is required.
- **Tools:** Tools are stopped, controlled and placed safely when the technique ends.

## 13. Assessment principles

3 x Technical Assessors will assess the 4 technical operatives using the applicable parts of the standard WRO Technical Assessment Sheet and its published performance descriptors.

### 13.1 Evidence rules

- Assessors score what they see and hear. An intended action that is not performed will not be treated as completed.
- Concise statements may explain a hazard, decision or limitation, but talking about a technique does not replace performing it.
- A technique does not have to match one national method. It must achieve the allocated result safely, effectively and in a controlled manner with **NO RISK** to the casualty or rescuers.
- A safety intervention by an assessor may affect the relevant safety, tool, operation or technique scores. If multiple safety interventions are implemented by the Assessors a team may be stopped and a final warning given before the possibility of disqualification.

## 13.2 Activities outside the scored scope

The scored scope does not include Incident Command performance or style; clinical assessment, diagnosis, treatment, packaging or handover; casualty removal; the performance of the casualty or Medic. If one of these rescuers perform any technical skill, it will not be scored.

## 14. Application of the WRO Technical Challenge Sheets

The Technical Challenge scoresheet and guidelines have been reduced for WRC 2026. They contain criteria designed for an extrication scenario

| Application                  | Technical sheet criteria                                                                                                                                                                                                                                                                   |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Applied throughout</b>    | 1.1 Hazard Identification and Risk Control; 1.2 Safety and Scene Assessment; 3.1-3.3 Vehicle Preparation; 4.1-4.3 Tool Management; 5.1-5.6 Operations; 6.1 Vehicle Shutdown; 6.2 Final Extrication Space Allocated Technique menu 3 6.3 Time Management; 7.2 Protection During Operations. |
| <b>Applied when relevant</b> | 1.3 Initial Medical Access; 2.1-2.3 Stabilisation; These are scored only where the vehicle position or an allocated technique creates relevant evidence                                                                                                                                    |
| <b>Not required</b>          | 7.1 Casualty Handling 7.3 Final Extrication Path and Egress; Section 8 Assisted Self-Extrication. These relate to casualty removal and are outside this challenge unless the WRO announces a specific variation before the first team starts.                                              |

On 5.3 assessors will use the sections to record Allocated Technique 1 from Menu 1, Allocated Technique 2 from Menu 2 and Allocated Technique 3 from Menu 3.

The maximum marks available for the Technical Challenge is 230

## 15. Results

- The result will be based on the total of the applicable marks recorded on the WRO Technical Challenge Score Sheet.
- Completion time will be recorded. The fastest team does not automatically win; time is assessed with safety, technical quality and the other applicable criteria.
- All 3 allocated techniques will carry the same assessment opportunity for every team.
- If 2 or more teams achieve the same overall points, the team with the quickest time will be announced as the winner. If 2 or more teams have the same points and the same time, the challenge will be declared a tie.
- The Technical Extrication Challenge result will be published separately from the main World Rescue Challenge extrication result and **WILL NOT** change the main extrication ranking.
- The WRO's determination of results is final.

## Appendix A - Team quick guide

**Challenge in one sentence.** 4 technical operatives have 20 minutes to complete 3 allocated techniques safely, using the standard equipment, while protecting a casualty who will remain in place.

### Before the clock starts

- Confirm the 3 allocated techniques and any limits.
- Identify the casualty, vehicle position and available equipment.
- Clarify only what outcome is required. Do not ask for coaching on the method.
- Ensure all participants are wearing the correct personal protective equipment.

### During the challenge

| Action           | Team check                                                                                                                 |
|------------------|----------------------------------------------------------------------------------------------------------------------------|
| <b>Assess</b>    | Complete a rapid risk survey. Identify vehicle systems, stored energy, movement and casualty risks.                        |
| <b>Stabilise</b> | Create the safe working platform needed for access and tool operation. Reassess after every significant movement.          |
| <b>Access</b>    | The team must create a safe route for the Medic to gain access to the casualty.                                            |
| <b>Protect</b>   | Use glass control, shock protection, soft or hard casualty shielding and sharp-edge protection as required.                |
| <b>Warn</b>      | Give a clear warning, obtain acknowledgement and then operate.                                                             |
| <b>Operate</b>   | Select the correct tool, position it safely, control reaction and watch the vehicle and casualty.                          |
| <b>Sequence</b>  | Use the team in parallel where safe. Avoid unnecessary actions and unmanaged simultaneous work.                            |
| <b>Complete</b>  | Achieve the required outcome, leave the work stable, make the tools safe and clearly state that the technique is complete. |

### Remember

**The casualty does not need to be extricated.** A technically impressive result that exposes the casualty or team to uncontrolled risk will not meet the challenge standard.

## Appendix B - Assessment focus matrix

This matrix summarises the evidence that teams should make visible through their work. It does not replace the WRO Technical Assessment Guidelines or Technical Assessment scoresheet.

| Focus                     | Evidence of effective performance                                                                                                                 | Evidence that may reduce the score                                                                                                  |
|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| <b>Safety</b>             | Risk survey; PPE; hazard controls; warnings; stable work; protection; reassessment.                                                               | Uncontrolled movement; missing warnings; poor protection; unsafe tool position; failure to stop or reassess.                        |
| <b>Vehicle technology</b> | Systems and materials are identified where relevant. Tool placement and shutdown decisions reflect the vehicle's construction and energy sources. | Cutting or spreading without checking relevant systems; ignoring stored energy, reinforcement or propulsion hazards.                |
| <b>Tool operation</b>     | Correct tool selected; controlled carry and placement; reaction monitored; tool limits respected; safe release and return.                        | Poor positioning; uncontrolled reaction; overloading; damaged tool use; unsafe tool transfer or storage.                            |
| <b>Technique</b>          | Preparation supports the method; action is controlled; result matches the allocation; team adapts safely to resistance or change.                 | Method does not achieve the result; unnecessary damage; poor control; no adaptation; incomplete end state.                          |
| <b>Sequencing</b>         | Safety controls precede hazardous work; team actions are coordinated; reassessment follows movement; three tasks progress logically.              | Tools used before preparation; conflicting simultaneous work; repeated delay; movement without updated stabilisation or protection. |
| <b>Time</b>               | Purposeful pace; team members used effectively; delays managed; work completed or progressed safely within 20 minutes.                            | Long inactivity; avoidable tool changes; repeated rework; rushing that creates risk; continuing after time.                         |

### Assessor consistency principles

- Use the same allocated outcomes and scoring interpretation for every team.
- Assess the observed standard, not the assessor's preferred local method.
- Treat criteria outside the challenge scope as not applicable, not as failed work.
- Protect confidentiality of the selected techniques until the first official allocation.

## Appendix C – The menu of Allocated Techniques

Depending on the condition of the cars presenting at the Technical Challenge pit, the Assessors will decide the positioning of the cars and they will allocate 1 technique from each of the following 3 areas

### Allocated Technique Menu 1

| Technique                               | Description                                                                                                                                                                                              |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Roof reform / relocated</b>          | Reforming the damaged roof back to its original height                                                                                                                                                   |
| <b>Post reform / relocated</b>          | Reforming the damaged pillar back to its original position                                                                                                                                               |
| <b>Steering wheel pull</b>              | Move the steering wheel from its position away from the driver<br>Adjustable manual controls are not to be used                                                                                          |
| <b>Rear seat back relocated</b>         | Move the back of the rear seat away from its position to make internal space<br>Adjustable manual controls are not to be used. This will be the 2 <sup>nd</sup> row of seats of an SUV or passenger van. |
| <b>Front seat back relocated</b>        | Move the back of the front seat away from its position to make internal space<br>Adjustable manual controls are not to be used                                                                           |
| <b>Door removal – Forced both sides</b> | Remove a door using tools from the hinge side and the lock side                                                                                                                                          |
| <b>Boot removal</b>                     | Remove the boot using tools from the hinge and the lock                                                                                                                                                  |
| <b>Pedal relocation</b>                 | Move the named pedal away from its position                                                                                                                                                              |
| <b>Stabilise and release impalement</b> | Stabilise the object and reduce its size to allow appropriate removal.<br>Maximum of 2 hands distance from the skin                                                                                      |

### Allocated Technique Menu 2

| Technique                               | Description                                                                                                             |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Cross ramming</b>                    | Reforming the damaged pillars / doors back to their original position                                                   |
| <b>Boot removal – Limited access</b>    | Remove the boot using tools from the hinge and the lock<br>Access is limited with a jersey barrier and or prop in place |
| <b>B - Post removal</b>                 | The B Post is removed from the designated side of the car                                                               |
| <b>Front seat back removal</b>          | Remove the back of the front seat to make internal space<br>Adjustable manual controls are not to be used               |
| <b>Rear seat back removal</b>           | Remove the back of the rear seat to make internal space<br>Adjustable manual controls are not to be used                |
| <b>External lifting to release limb</b> | Lift the car the required distance to release a trapped object                                                          |
| <b>Vehicle relocation – primary</b>     | Using tools, move 1 end of a car away from an object to create room to operate tools                                    |

### **Allocated Technique Menu 3**

| <b>Technique</b>                                        | <b>Description</b>                                                                                                                                 |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Rear quarter panel removal / 3<sup>rd</sup> door</b> | Remove the front door using tools from the hinge and lock sides and create a 3 <sup>rd</sup> door opening in a 2-door car                          |
| <b>Full side removal</b>                                | Remove both doors using tools from the hinge and the lock sides while simultaneously removing the complete B Post                                  |
| <b>Full roof fold / Roof Peel</b>                       | Insert relief cuts, complete full cuts and fold the roof away                                                                                      |
| <b>Roof flap</b>                                        | Insert relief cuts, complete full cuts and fold half of the roof in the direction requested (from B posts to the front or from B post to the rear) |
| <b>Full roof removal</b>                                | Remove the full roof of the car                                                                                                                    |
| <b>Dash roll</b>                                        | Insert the appropriate relief cuts on the designated side and complete a dash roll pushing away from the front seat.                               |
| <b>Dash lift</b>                                        | Insert the appropriate relief cuts on the designated side and complete a dash lift, lifting away from the front seat.                              |
| <b>Vehicle relocation – secondary</b>                   | Using tools, move both ends of a car away from an object to create room to operate tools                                                           |