UKROadvancing Professional Rescue - Lesson Guide

SUBJECT	Extrication – Space Creation – Car on its wheels - Half roof fold

Aim	Essential understanding	Resources
To forward fold the rear section of a vehicle roof	• Application of technique • Tools required and safe operation • Impact on the casualty • Influence the vehicle has on the technique • Tool positioning and the sequence of actions	• Scrap vehicle • Casualty (dummy) • Equipment: Stabilisation equipment, Hydraulic Cutter, Combination tool or Spreader, Hand tools, Glass management kit, Reciprocating saw (optional)

Instructor Input

Theory	Information Gathering	Concept	Demonstration
Where can the techniques be applied and what influences the outcome?	How does the vehicle structural impact on the success of the technique?	What are the rescue tool requirements/consideration?	Describe/demonstrate the sequence of tool operations and actions
Application	**Vehicle Knowledge**	**Tool Selection**	**Technique**
• Vehicle on its wheels with restricted access at the front of the vehicle, limiting access to the 'A' posts • Restrictions – Panoramic roofs • Maximum space creation given the situation • Provides good access for emergency service responders • Reduces the risk of musculoskeletal injury to emergency service responders Safety – PPE/Casualty protection • Maintaining a safe working area • Use of equipment and debris dump • Time considerations • Impact on the casualty – Noise, time	• Vehicle Impact Kinematics • Glass management • Type if vehicle Estate, SUV, Saloon, Hatchback – roof size • Removal of the tailgate (if applicable) • Age and make of the vehicle, the influence of structural strength • Vehicle safety devices – location/type • Seat operation – impact on the final extrication • Sun/Panoramic Roof • Impact of roof strengthening bars	Rescue tools: • Dedicated cutter • Combination tool • Reciprocating saw (optional) • Glass management kit • Stabilisation equipment Tool consideration: • The width of the pillars – method of cutting • Position/type of operation • The angle of the tools • Opening shut-lines • Relative structural strengths • Avoidance of hazards and obstruction	• Vehicle preparation - Glass, Stability, Cut seat belts, Peel and Reveal pillars • Ensure casualty protection – Soft and hard • Mark a safe place to cut • Ensure emergency plan is in place first • Removal of tailgate (if required) • Make a relief cut into the roof cantrails, behind the 'B' pillar furthest away from the casualty • Cut 'C' and 'D' pillar (if applicable) along the same side. • Opportunity for simultaneous activity • Cut 'D' (if applicable), 'C' casualty side of the vehicle. • Make a second relief cut in the other cantrails behind the 'B' pillar • Support the roof on both sides at the rear

			• Fold the roof forward • Protect sharp edges
Delegate understanding			
• Application and sequence of actions • Key considerations • Points of safety • Impact on the casualty • Equipment requirements • List advantages / disadvantages	• Be able to analyse vehicle structural factors and respond accordingly • Plan location of tool operations and purchase points • Identify safety devices and mitigate the risk	• Formulate a sequence of tool operation • Apply effective, safe use of tools • Recognise limitations • Demonstrate a successful outcome	• Appropriate vehicle preparation • Identify and select appropriate tools • Demonstrate the safe and correct use of tools • Appropriate tool selection and recognise the limitation of tools • The correct sequence of tool operation • Successful completion of the technique