

UK RO Advancing Professional Rescue - Lesson Guide

SUBJECT	Extrication – Space Creation – Vehicle on its side – Full roof fold		
Aim	Essential understanding	Resources	
To displace the roof of a vehicle that is on its side, creating maximum space	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Scrap vehicle – means of positioning the 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 structure impact on the success of the roof removal?	What are the rescue tool requirements/consideration?	Describe/demonstrate the sequence of tool operations and actions
Application	Vehicle Knowledge	Tool Selection	Technique
<ul style="list-style-type: none"> • Vehicle on its side • Maximum space creation for a controlled casualty extrication • 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, exposure to the environment • Size of the roof • Implications of glass management • Benefits of access at the front and rear of the vehicle 	<ul style="list-style-type: none"> • Vehicle Impact Kinematics • Glass management – type & location, avoidance • Type of 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 pathway • Sun/Panoramic Roof 	<p>Rescue tools:</p> <ul style="list-style-type: none"> • Dedicated cutter • Reciprocating saw (optional) • Glass management kit • Stabilisation equipment <p>Tool consideration:</p> <ul style="list-style-type: none"> • The width of the pillars – method of cutting • Position/type of operation • The angle of the tools • Opening of shut-lines • Relative structural strengths • Avoidance of hazards and obstruction 	<ul style="list-style-type: none"> • 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) • Remove the windscreen (if accessible) – Letterbox method. • Make a relief cut into the roof header rail just inside the ‘A’ pillar, at the side nearest to the ground • Cut the upper ‘A’, ‘B’, ‘C’ and ‘D’ pillar (if applicable) • Opportunity for simultaneous activity • Make a second relief cut in the rear header rail just inside the ‘C/D’ post (at the fold side)

			<ul style="list-style-type: none"> • Provide a platform (blocks) to rest the folded roof on • Support the casualty and fold the roof to the floor • Support the folded roof on the blocks • Protect sharp edges
Delegate understanding			
<ul style="list-style-type: none"> • Application and sequence of actions • Key considerations • Points of safety • Impact on the casualty • Equipment requirements • List advantages / disadvantages 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Formulate a sequence of tool operation • Apply effective, safe use of tools • Recognise limitations • Demonstrate a successful outcome 	<ul style="list-style-type: none"> • 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