

UK Advancing Professional Rescue - Lesson Guide

SUBJECT	Extrication – Space Creation – Front Seat-back Displacement		
Aim	Essential understanding	Resources	
To remove or displace that back of the front seat that has failed to move through normal mechanical means.	<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, and Hand tools 	
Instructor Input			
Theory	Information Gathering	Concept	Demonstration
When is it appropriate to use the technique and what influences the outcome?	How do the vehicle and seat 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"> • Where the seat-back will not recline to support casualty extrication • May be required to provide a pathway for immediate, emergency or full plans to be effective • Will support the process of creating internal and maximum space • The structural design of the seat • Safety – PPE/Casualty protection • Impact on the casualty – Seat movement • Time consideration • Casualties injuries 	<ul style="list-style-type: none"> • Seat design • Seat mechanism • Types of operation – Electric / manual • Impact of vehicle damage on seat operation – B post impingement, floor pan deformation • Vehicle position • Vehicle safety devices -Seat-mounted airbags 	<p>Rescue tools:</p> <ul style="list-style-type: none"> • Dedicated cutter • Dedicated Spreader • Combination tool • Hand tools • Socket set <p>Tool consideration:</p> <ul style="list-style-type: none"> • Position/type of operation • The angle of the tools • Relative structural strengths • Impact of high strength steels • Avoidance of hazards and obstruction 	<ul style="list-style-type: none"> • Try before you pry <ul style="list-style-type: none"> ○ Identify the operating mechanism ○ Check seat operation, slide the seat forward or backward (if possible) • Consider the best approach based on accident damage and the needs of the casualty • Seat back displacement – Consideration for immediate extrication or restricted access when the vehicle is on its side or roof <ul style="list-style-type: none"> ○ Dedicated Spreader ○ Provide suitable protection for the casualty ○ Remove the headrest (if possible), support the casualty ○ Rest the tips on the top of the seat back and open the spreaders forcing the seatback backwards

			<ul style="list-style-type: none"> • Seat back removal – Consideration to support any extrication plan where suitable access is available <ul style="list-style-type: none"> ○ Dedicated cutter ○ Provide adequate protection for the casualty ○ Remove the headrest (if possible), support the casualty ○ Expose the seat back with a knife and remove upholstery and padding, isolate airbag if present ○ Identify a suitable location to cut – considering the structural strength and the impact on the casualty ○ Hard protection between the tool and casualty ○ Cut using dedicated cutters • 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 	<ul style="list-style-type: none"> • Be able to analyse vehicle structural factors and respond accordingly • Plan location of tool operation 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