

LESSON PLAN: UKRO 2018 – Internal Space Creation

Topic of lesson (link to syllabus/specification): Practical cutting techniques for internal space creation.		Materials and equipment required: At least one vehicle, as large as possible. Hydraulic/e tool rams and spreaders, PPE.		
Lesson Aims (lecturer's intention): To impart an understanding of basic tool operations on a vehicle, by practical demonstration.		Learning outcomes (what students should learn): <ul style="list-style-type: none"> • Identification where reformation can be employed internally • Demonstrate basic centre console and cross ramming techniques • Understand the hazards associated with SRS activation when ramming from the centre console • Understand the limits and capabilities of hydraulic and e Tool technologies when employing ramming 		
Strategies for differentiation and equal opportunities: A mix of learning styles including technical input and practical application and instructor demonstration.		Assessment methods (how the learning outcome will be assessed): Summative assessment through questions, and practical demonstration throughout session.		
Lesson Outline				
Duration	Subject matter/content	Teacher Activity	Learner Activity	Resources/notes differentiation
0 > 1 min	Introduction to Instructor and session.	Technical input	Listen	<ul style="list-style-type: none"> • Wheel chocks • stabilisation equipment
1 > 10 mins	Aim & Objectives of presentation	Read out the aim and main objectives and make sure students understand the purpose of the session. End with health and safety brief.	Questioning	None

10 – 48 mins	Rams/spreaders	<p>This section of the session should be to allow students to practise with the cutters. Ensure the session includes:</p> <ul style="list-style-type: none"> • Operator positioning • Anticipation of tool movement • Positioning of tool and suitable position points • Rotation of crews 	Listen, respond to questions, Practical demonstration	Vehicle, hydraulic/e tool equipment, full PPE.
48 - 50mins	Summary and recap	Q& A students about best uses, common mistakes such as operator positioning etc.		

Sources of further study:

Fire & Rescue Service Manual Volume 2 (Incidents Involving rescue from road vehicles.)

This session is completely practical. The time of the session can be increased / decreased at the beginning by revisiting stability, glass management, vehicle preparation, and setting up a tool dump.

The vehicle should be stabilised for this session, to create a realistic scenario, and demonstrate how forces applied to the car will affect the stability. Stability should be revisited as appropriate.

The term 'ramming' may also incorporate spreading.

The state and type of the vehicle will dictate how many times students can practise the different techniques. This lesson plan is written so that as many techniques can be practised on one vehicle as possible.

This session is for a car on all four wheels, or alternatively on its roof and side.

Evaluation/Review:

The workshop will be evaluated by reviewing the workshop feedback

Description of training

The scenario will comprise of a bus with a training dummy placed underneath to allow delegates to practise safe approach and safe effective extrication.

Aims and objectives

- To give delegates a greater understanding of considerations when working around heavy vehicles,
- To enable delegates to apply the lifting plan system,
- To give delegates an understanding of the different types of heavy vehicle construction and how this can influence the rescue plan,
- To enable delegates to select the correct lifting and dynamic stabilisation equipment,
- Discuss the issue of carrying out extrication under the vehicle versus moving the casualty vehicle to a safe place.