

EXTRICATION – BOOK REVIEW

VEHICLE EXTRICATION the next generation



VEHICLE EXTRICATION

ublished during lockdown this excellent book from Ian Dunbar who many of you will remember as Holmatro's extrication front-man, does seem to be everything you ever wanted to know about casualty extrication from crashed vehicles and more good stuff besides.

CONTENT OVERVIEW

So what's in this technical treasure trove that makes it so good?

i) all the usual suspects like safety, the vehicle structure and the team approach (v2 - more of that later). The Scene is still a feature, although divided into component parts in the other sections rather than a subject in its own right. Space creation techniques for the three standard crash circumstances

- · cars upright
- · on their side
- · on their roofs

...plus specials like multi-vehicle scenes, night incidents, in water and precarious positions.

ii) more unusual fare is provided by sections on training, human factors and crew resource management, medical staff and medical considerations and collision investigation.

iii) What isn't covered is a section on tools. In other manuals this can become a veritable equipment catalogue for the

AUTHOR: PUBLISHER: FORMAT:

PAGES:

Ian Dunbar Lukas Hydraulik GmbH

A4 Hardback

Colour & Spot colour throughout 293

CHAPTERS:

ISBN-10: 3000653066 978-3000653063 ISBN-13: COST:

REVIEW By Rich Denham

& Nick Appleton



5. APPROPRIATE GLASS MANAGEMENT

Inline with extrication plan and patient

4. STABILITY AND INITIAL ACCESS Phase 1 Imanual), Phase 2 (blocks/ IC review initial plan

3. IC FORMULATE INITIAL EXTRICATION PLANS

Communicate initial findings and

2. CONSIDER VEHICLE RELOCATION Consider merits of relocating vehicle to improve safety and/or reduce scene time.

> 1. SAFETY & ADDITIONAL RESOURCES 360 degree scene assessment and reques additional resources

6. APPROPRIATE SPACE CREATION (INTERNAL & EXTERNAL - VEHICLE SHUTDOWN PROCEDURE

7. APPROPRIATE FULL ACCESS

In line with extrication plan and patient. C review initial plan.

8. PATIENT STABILIZATION,

EXTRICATION AND HANDOUER Aost appropriate extrication path/verbal

9. PERFOMENCE FUGILITION On scene (hot) and subsequent (cold) debrief.

fig.1

manufacturer sponsoring the hook but is an area well covered by your Fire and Rescue services' own training and equipment notes so it won't be missed. Incidentally the book does not deal with larger vehicles: trucks, trailers, vans/pickups and other goods vehicles but that's a manual in its own right.

FORMAT AND PRODUCTION VALUES

Before we go on to look at major content features, lets briefly review the physical format of this very well presented 293 page hardcover book. Close to UK standard A4 page size: 275mm x 205mm/11x8", in fact similar to this magazine - it is full colour throughout

with lots of photos. Interestingly the potentially distracting blizzard of text-boxes so common in contemporary instructional manuals in general are dropped here in favour of highlighted headline text instead, arguably making the wealth of detailed information easier to prioritise and understand.

Many of the photos may be stills from the associated videos so can be quite dark, we would have called that 'moody' and it's a function of filming inside. This was likely done because external lighting conditions can't be controlled, vary continuously and so slow-down any photo-shoot. And as any RTC/MVA Instructor who's taken photos for a training note will tell you, outside, you inevitably get lots of extraneous and very distracting

detail, something that is especially prevalent in

THE TEAM APPROACH V2.0 (V3.0 ?) (fig1)

The author goes into very readable detail revising the Team Approach pioneered by London Fire Brigade's Len Watson in the late 90's and was subsequently adopted by the UK Fire and Rescue Service. Its been largely unchanged since then so the review here is a welcome section of this book. However, the author states that he is surprised no-one has revised the team approach before, but here at TECHNICAL RESCUE magazine we did just that, years ago in TRm issue 69 from early 2017:

HYBRID AND ELECTRIC VEHICLE SAFETY

US manuals. None of that here though...



extricationarticles These are two different takes on the subject; ours was focused on a logic that makes it easier to



delivering training, but the greater detail in this book, 44 pages to be precise, really is first-rate and gives in-depth context that's as valuable to attending crews as it certainly will be to officers in-charge at an incident.

TRAINING

understand when

com/

The author states in the first line of this chapter 'In my opinion, this is the most important section of this entire book' and in our opinion he's absolutely spot-on. He goes on to state that 'There can be no doubt that training

- Reveal the hinges by crushing the front wing francier). The wing can be fully remo-
- Spread the top hinge first, then the check strap and finally the bottom hinge ensu-ring that you always spread above the point of strength
- le and remove the door

the construction is tearing e.g. A-pillar, make a

PATIENT CONSIDERATIONS:

is will result in their movement when you open

- · Any possible contan
- Any sharp edges or broken glass appa-
- . Use hard and soft protection to pro-
- . Cover all sharp edges v

oor removal may require hydraulic tools to be ed close to the patient. Brief the patient and sure they are adequately protected. If you we concerns about yours or the petient's safety

issess the patient, moving a door will provide excellent patient; best. If you start to work near the open door accept to your patient, this may compromise a space required by the bethnical team espec

u. PLEASE consider you action and how this may





training opportunities that are available - methodology, how to improve and also multi-agency training - and also what areas to focus on:

- Simultaneous activity
- Stability
- De-trimming
- Tackling different vehicle crash postures and damage configurations
- Using live 'casualties'

But also supplementing this with information gathering. For example, use of the NCAP website and also contacts with vehicle manufacturers to gain a better understanding of the structure and features of late model vehicles, how they behave in different crash impacts and so help identify the subsequent space creation solutions that rescuers might employ.

Without doubt all individuals with a training responsibility officers on stations as well as training centre instructors - will benefit from reading this section, noting the suggestions and then reviewing and improving their own practice and delivery.

PRE-HOSPITAL CLINICIANS/MEDICAL CONSIDERATIONS FOR TECHNICAL RESCUERS

These are the attending medics, be they paramedics or airambulance doctors and this section is written primarily for them, to give some detailed context for the environment in which they'll be working. These sections also give technical rescuers some understanding of how to safely and effectively integrate their medical colleagues into what is arguably a very specific confined space rescue scenario. It also provides

on Training.

TECHNICAL PROCESSES AND EVOLUTIONS

These are essentially stability, access and space creation techniques but also include practical considerations for medical rescuers and casualty handling.

This chapter takes the form of 26 separate Process/Evolution data sheets (see fig 1 on page 15 which is page 247 in the manual), each with its own preceding introduction. There are no photograph sequences in this section, but this is not an issue as there is a concise explanatory video for 20 of these processes which is easily accessed via the QR-Code or the Lukas URL in the bottom right hand corner of each sheet. For an example video use the link: www.lukas.com/book/247

Its worth noting that this facility also allows for each of the data sheets in pdf form to be printed off as student notes (with copyright acknowledgement) or for physical reference and noting when undertaking or delivering training. And incidentally there are a further 10 QR-Code/URL accessed videos at various points throughout the rest of the book, on various subjects.

However its also worth noting that the author's previous work for Holmatro: VEHICLE EXTRICATION TECHNIQUES (reviewed. in 2014 in TR67, pic above and link on: rescuemagazines.com/ extricationarticles) has more than twice this number (59) of evolution 'sheets', each with a dedicated process photo sequence. Given that firefighters tend to be very visual learners, this book might also be purchased as a complementary reference to the one being reviewed here and with the same author they'll dovetail very nicely.

CONCLUSION

Compared with all other RTC/MVA books over the last twenty years, this is without doubt the best and most comprehensive one yet written on the rescue of entrapped casualties from crashed vehicles. No, really, it is.

The promotional blurb says that the book has been written '... for the newest operative and (also) as a source of reference for more experienced rescuers' and that's absolutely true. But whichever category you fall into, buy this book because going back to the section mentioned earlier on training - the adoption of its practices really will enhance the patient life and quality of life outcomes of the extrications that you inevitably will perform in future.

VEHICLE EXTRICATION - THE NEXT GENERATION - by LUKAS Hydraulik GmbH is available on Amazon or in their online store: lukas-store.com



