INFORMATION FOR FIRST AND SECOND RESPONDERS RESCUE AND TRAINING MANUAL VEHICLE

NAME VEHICLE

TYPE OF VEHICLE

Version ../../.. ENG

INFORMATION FOR FIRST AND SECOND RESPONDERS
RESCUE AND TRAINING MANUAL VEHICLE

NAME VEHICLE

TYPE OF VEHICLE

DRIVE LINE SIGNS (EXAMPLE)

TYPE OF BATTERY(EXAMPLE)

CONTENT

Note:
First responders: Fire Fighters, Police, Medical personal, EMT
Second responders: Towing and maintenance personnel,

LOGO Manufacturer 300 DPI	**BRAND/TYPE (Arial 16)**	LOGO Manufacturer 300 DPI

Manufacturer: XXX (Arial 11) **Info in case of accident: XXX (**Arial 11)	**Costumer: XXX** (Arial 11) **Version: 12/05/2013** (Arial 11)

1. Recognition/type/fuel

A) In general:

- *RGB frame: 191/191/191*
- *Font frame : Arial 14*
- *Font text: Arial 11*
- *Image: minimum 1 MB*
- *Scanned image: minimum 300 DPI*
- *Distracting information on images are not allowed. (people, faces,…)*
- *Indication to take notice!*

- *Indication life threatening situation!*

- *Use provided symbols from enclosed list.*

B) Contents chapter 1:

- If vehicle runs on alternative energy then mark introduction in colour red!
- If vehicle is equipped with high voltage batteries or super capacitors then add link.

Link rescue and training manual battery/super capacitor

- General images of the car
- Info concerning fitted symbols on vehicles in order to recognize propulsion system.

2. Structure/overview important vehicle parts/access to them

A)In general:

- *RGB Frame: 141/179/226*
- *Font frame: Arial 14*
- *Font text: Arial 11*
- *Image: minimum 1 MB*
- *Scanned image: minimum 300 DPI*
- *Distracting information on images are not allowed. (people, faces,…)*
- *Indication to take notice!*

- *Indication life threatening situation!*

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B) Contents chapter 2:

- Image pointing out different components (batteries, fuel-tanks, gas-tanks, air-tanks, hydrogen-tanks, supercaps, airco fluid storage, high tension components, hoses, relief valve outlets, high tension disconnectors, valves, automatic fire suppression system…
  In short: only components of importance for emergency services!
- Image/drawing of different components in detail, with necessary text for clarification.
- Include Rescue sheet of the car
- legend of used symbols (enclose table).
- How to open hatches/doors blocking access to those components (add image/drawing).

3. Disable direct hazards/safety regulations/ PPE

A) In general:

- *RGB frame: 255/204/0*
- *Font frame : Arial 14*
- *Font text: Arial 11*
- *Image: minimum 1 MB*
- *Scanned image: minimum 300 DPI*
- *Distracting information on images are not allowed. (people, faces,…)*
- *Indication to take notice!*

- *Indication life threatening situation!*

- *Use provided symbols from enclosed list.*

B) Contents chapter 3

- How to eliminate immediate danger, which safety requirements to meet and minimum requirements PPE's for safely executing task.
- Provide detailed images of disconnectors, with necessary information.

4. Access to the occupants

A) In general:

- *RGB frame: 102/255/51*
- *Font frame : Arial 14*
- *Font text: Arial 11*
- *Image: minimum 1 MB*
- *Scanned image: minimum 300 DPI*
- *Distracting information on images are not allowed. (people, faces,…)*
- *Indication to take notice!*

- *Indication life threatening situation!*

- *Use provided symbols from enclosed list.*

C) Contents chapter 4

- Height adjustment mechanism driver's seat and steering wheel:
- Image/drawing of these adjustment mechanisms in detail, with necessary text for clarification.
- Detail of high strength steal zone's used in the car

5. Dangers/contents stored liquids/gasses/solids/ PPE

A) In general:

- *RGB frame: 255/255/0*
- *Font frame : Arial 14*
- *Font text: Arial 11*
- *Image: minimum 1 MB*
- *Scanned image: minimum 300 DPI*
- *Distracting information on images are not allowed. (people, faces,…)*
- *Indication to take notice!*

- *Indication life threatening situation!*

- *Use provided symbols from enclosed list.*

B) Contents chapter 5

- Sort/contents/number of/operating pressure: batteries, super capacitor, gasoline-tank, gas-tank(s), hydrogen-tank(s), coolant, airco agent, isolation, flammable materials,…
- Specific dangers of those items.
- How to act, safety precautions, PPE'S.
- **Enclose (M)SDS files of all products with this training manual**

Link rescue and training manual battery/super cap

6. Dangers in Case of Fire/safety regulations/PPE

A) In general:

- RGB frame: 255/0/0
- *Font frame : Arial 14*
- *Font text: Arial 11*
- *Image: minimum 1 MB*
- *Scanned image: minimum 300 DPI*
- *Distracting information on images is not allowed. (people, faces,…)*
- *Indication to take notice!*

- *Indication life threatening situation!*

- *Use provided symbols from enclosed list.*

B) <u>Contents chapter 6</u>

- What to do in case of fire, which extinguishing method to use, specific dangers, focus of attention, PPE'S.
- Provide detailed images of automatic fire suppression system with necessary text for clarification.

Link rescue and training manual battery/super cap

7. Dangers in case of water submersion/safety regulations/PPE

A) In general:

- *RGB frame: 0/0/255*
- *Font frame : Arial 14*
- *Font text: Arial 11*
- *Image: minimum 1 MB*
- *Scanned image: minimum 300 DPI*
- *Distracting information on images is not allowed. (people, faces,…)*
- *Indication to take notice!*

- *Indication life threatening situation!*

- *Use provided symbols from enclosed list.*

B) Contents chapter 7

- What to do in case of immersion in water, specific dangers, focus of attention, PPE'S.

8. Guidelines concerning immobilisation/stabilisation/lifting

A) In general:

- *RGB frame: 204/255/204*
- *Font frame : Arial 14*
- *Font text: Arial 11*
- *Image: minimum 1 MB*
- *Scanned image: minimum 300 DPI*
- *Distracting information on images are not allowed. (people, faces,…)*
- *Indication to take notice!*

- *Indication life threatening situation!*

- *Use provided symbols from enclosed list.*

B) <u>Contents chapter 8</u>

- Naming, pointing out lifting points, stabilisation, focus of attention
- Provide detailed images of these elements with necessary text for clarification.

9. Information for towing-services

A. In general:

- *RGB frame: 255/204/153*
- *Font frame : Arial 14*
- *Font text: Arial 11*
- *Image: minimum 1 MB*
- *Scanned image: minimum 300 DPI*
- *Distracting information on images are not allowed. (people, faces,…)*
- *Indication to take notice!*

- *Indication life threatening situation!*

- *Use provided symbols from enclosed list.*

B. Contents chapter 9

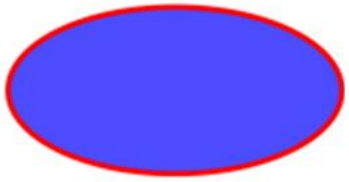
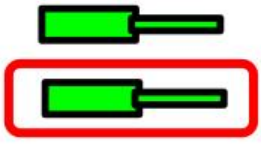
- Information for towing-services, specific info
- If vehicle is equipped with high voltage batteries or super capacitors then add link.

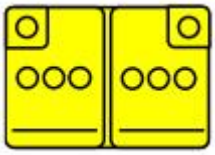
Link rescue and training manual battery/super cap

Author: XXX
Sources: *XXX*

Template "to be filled in" made by CTIF Commission for Extrication and New Technology.
Designer Kurt Vollmacher project leader.

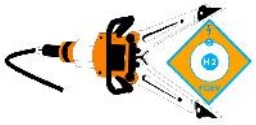
10. Explanation used symbols

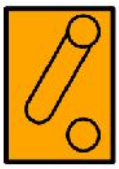
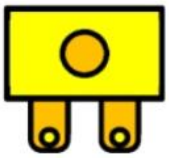
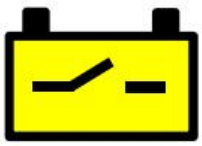
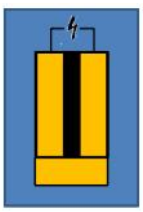
Important: only mention the used symbols and drive line in these list! **Remove also the details: E.G: ISO/DIS 17840, Blue R/G/B: 77/77/255, Red R/G/B: 255/0/0**	
	**Airbag** *ISO/DIS 17840* Blue R/G/B: 77/77/255 Red R/G/B: 255/0/0
	**Automatic rollover protection system** *ISO/DIS 17840* Red R/G/B: 255/0/0 Lime R/G/B: 0/255/0 Black
	**Seat belt pretensioner** *ISO/DIS 17840* Purple R/G/B: 152/43/143 Red R/G/B: 255/0/0
	**Stored gas inflator** *ISO/DIS 17840* Blue R/G/B: 77/77/255 Red R/G/B: 255/0/0 Black
	**Pedestrian protection active system** *ISO/DIS 17840* Red R/G/B: 255/0/0 Black
	**Gas strut** **Preloaded spring** *ISO/DIS 17840* Red R/G/B: 255/0/0 Lime R/G/B: 0/255/0 Black
	**High strength zone** *ISO/DIS 17840* Sea Green R/G/B: 22/124/199. Black

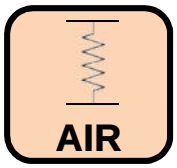
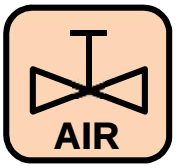
	**Zone requiring special attention** *ISO/DIS 17840*
	**Right hand drive** *ISO/DIS 17840* White Black Blue R/G/B: 0/112/192
	**Left hand drive** *ISO/DIS 17840* White Black Blue R/G/B: 0/112/192
	**Battery low voltage** *ISO/DIS 17840* Yellow R/G/B: 255/255/0 Black
	**SRS control unit** *ISO/DIS 17840* Yellow R/G/B: 255/255/0 Black
	**Ultra capacitor low voltage** *ISO/DIS 17840* Yellow R/G/B: 255/255/0 Black
	**Solar Panel** *Draft* Yellow R/G/B: 255/255/0 Black
	**Fuel tank Diesel** *Draft* Grey R/G/B**:** 127/127/127 Black
	**Fuel tank Bio Diesel with for example 85% Ethanol** *Draft* Green R/G/B: 80/224/22 Black Blue R/G/B: 0/32/96 Text: Arial rounded MT Bold

	**Fuel tank Gasoline** *Draft* Red R/G/B: 161/37/3 Black
	**Gas tank with "indication type of gas"** *Draft* Green R/G/B: 0/176/80 Black Text: Arial rounded MT Bold
	**Manual gas shut-off valve with "indication type of gas"** *Draft* Green R/G/B: 0/176/80 Black Text: Arial rounded MT Bold
	**Automatic gas overpressure safety valve with "indication type of gas"** *Draft* Green R/G/B: 0/176/80 Black Text: Arial rounded MT Bold
	**Gas pipes** *Draft* Green R/G/B: 0/176/80
	**Hydrogen tank** *Draft* Blue R/G/B: 0/176/240 Black Text: Arial rounded MT Bold
	**Hydrogen pipes** *Draft* Blue R/G/B: 0/176/240 Black
	**Manual hydrogen shut-off valve** *Draft* Blue R/G/B: 0/176/240 Black Text: Arial rounded MT Bold
	**Automatic hydrogen overpressure safety valve** *Draft* Blue R/G/B: 0/176/240 Black Text: Arial rounded MT Bold
	**Airco pipes** *Draft* Purple R/G/B:204/0/204

	**Airco component** *Draft* Purple R/G/B:204/0/204
	**Direction overpressure safety valve** *Draft* Direction arrow in red colour = direction overpressure safety valve **"**front, back, left, right" Bullet in red = direction overpressure safety valve **"**up**"** No colours used = direction overpressure safety valve **"**down**"** Red R/G/B: 255/0/0 Black E.g. Hydrogen: Blue R/G/B: 0/176/240 Text: Arial rounded MT Bold
	**High voltage component** *Draft* Orange R/G/B: 255/165/0 Black
	**High voltage battery pack with indication type of battery** *Draft* Orange R/G/B: 255/165/0 Black Text: Arial rounded MT Bold
	**NiMH battery, high voltage** *Draft* Orange R/G/B: 255/165/0 Black Text: Arial rounded MT Bold
	**Lithium ion battery, high voltage** *Draft* Orange R/G/B: 255/165/0 Black Text: Arial rounded MT Bold
	**Ultra capacitor, high voltage** *Draft* Orange R/G/B: 255/165/0 Yellow R/G/B: 255/255/0 Black



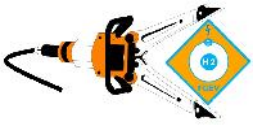
	**High voltage disconnect (service plug)** *ISO/DIS 17840* Orange R/G/B: 255/165/0 Black
	**High voltage power cable** *ISO/DIS 17840* Orange R/G/B: 255/165/0
	**Induction power (magnetic field)** Draft Orange R/G/B: 255/165/0 Black
	**Fuse box low voltage (disconnect fuses high power inside)** *ISO/DIS 17840* Yellow R/G/B: 255/255/0 Black
	**Cable cut symbol to disconnect high voltage (USA)** Yellow R/G/B: 255/255/0 Black Red RGB: 255/0/0
	**Shutdown engine/voltage** *Draft* **: in all forms, by means of:** • Ignition key • Operation in engine compartment • Operation on dashboard • other… Yellow R/G/B: 255/255/0 Black Red RGB: 255/0/0
	**Battery key** *Draft* • In cabin (obligated by ADR Europe) • Outside the cabin on the vehicle • Other areas Yellow R/G/B: 255/255/0 Black
	**Fuel cell** *Draft* Blue R/G/B: 0/176/240 Orange R/G/B: 255/165/0 Black

	**Air suspension cabin/seat/chassis (adjustable)** *Draft* R/G/B: 252/213/181 Black
	**Manual air shut-off valve** *Draft* R/G/B: 252/213/181 Black
	**Automatic air overpressure safety valve** *Draft* R/G/B: 252/213/181 Black
	**Air tank** *Draft* R/G/B: 252/213/181
	**Emergency exit (emergency hatches,…)** **Direction arrow = direction emergency exit** *ISO 7010* Green R/G/B: 0/176/80 White
	**Emergency exit (to break)** *ISO 7010* Green RGB: 0/176/80 White
	**Emergency valve to open doors/hatches in general** *Draft* Green R/G/B: 0/176/80 White
	**Automatic fire suppression system** *Draft* Red R/G/B: 255/0/0 Black White
	**Use water to extinguish** *Draft* Blue R/G/B: 56/93/138 White

	**Don't use water to extinguish** *Draft* Red R/G/B: 255/0/0 White
	**Use CAFS** *Draft* **Compessed Air Foam System** Blue R/G/B: 56/93/138 White
	**Do not break open** *Draft* Red R/G/B: 255/0/0 White
	**Use heat Camera** *Draft* Blue R/G/B: 56/93/138 White
	**Disassembly only allowed by qualified persons** *Draft* Blue R/G/B: 56/93/138 White
	**Danger electricity/electric shock** *ISO 7010* Yellow R/G/B: 255/255/0 Black
	**Low temperature** *ISO 7010* Yellow R/G/B: 255/255/0 Black
	**Non-ionizing radiation** *ISO 7010* Yellow R/G/B: 255/255/0 Black
	**Battery hazard** *ISO 7010* Yellow R/G/B: 255/255/0 Black

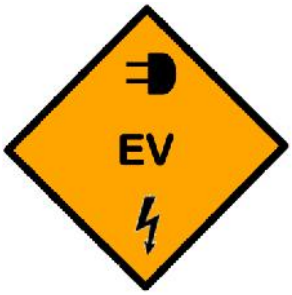
	**Magnetic field** (e.g. induction power) *ISO 7010* Yellow R/G/B: 255/255/0 Black
	**Wear safety boots** *ISO 7010* Blue R/G/B: 56/93/138 White
	**Wear safety gloves** *ISO 7010* Blue R/G/B: 56/93/138 White
	**Wear protective clothing** *ISO 7010* Blue R/G/B: 56/93/138 White
	**Wear face shield** *ISO 7010* Blue R/G/B: 56/93/138 White
	**Wear protective mask** *ISO 7010* Blue R/G/B: 56/93/138 White
	**Wear breathing apparatus** *ISO 7010* Blue R/G/B: 56/93/138 White
	**Wear Splash suit/protected gas suit** *ISO 7010* (indicate preference type of suit) Blue R/G/B: 56/93/138 Whit

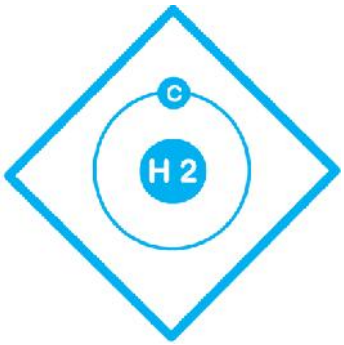
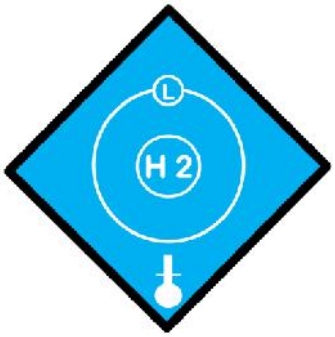
	**NFPA 704 Hazard Identification System (USA)** Hazard rating of 0 to 4, The higher the number the greater the hazard Flammability: red R/G/B:255/0/0 (0-1-2-3-4) Health: blue R/G/B: 0/0/145 (0-1-2-3-4) Reactivity: yellow R/G/B: 255/255/0 (0-1-2-3-4) Special warnings: white **Information:** http://www.nfpa.org/codes-and-standards/document-information-pages?mode=code&code=704
	**Chemical toilet** *Draft* Red R/G/B: 255/0/0 Black
	**Explosive** *(Globally Harmonized System of Classification and Labelling of Chemicals = GHS)* Red R/G/B: 255/0/0 Black
	**Flammable** *(GHS)* Red R/G/B: 255/0/0 Black
	**Gases under pressure** *(GHS)* Red R/G/B: 255/0/0 Black
	**Oxidizer** *(GHS)* Red R/G/B: 255/0/0 Black
	**Corrosives** *(GHS)* Red R/G/B: 255/0/0 Black
	**Caution harmful** *(GHS)* Red R/G/B: 255/0/0 Black



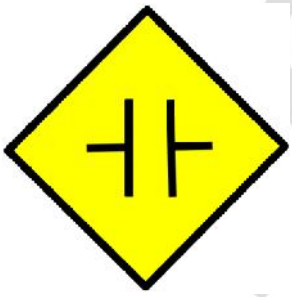
	**Acute toxicity** *(GHS)* Red R/G/B: 255/0/0 Black
	**Harmful** *(GHS)* Red R/G/B: 255/0/0 Black
	**Environmental hazard** *(GHS)* Red R/G/B: 255/0/0 Black
	**General warning!** *ISO 7010* **Hazard symbol has to be at beginning of the text!** Yellow R/G/B: 255/255/0 Black
	**Indication of life threatening situation!** *Draft* **Hazard symbol has to be at beginning of the text!** **Not acting on provided information can lead to life threatening consequences…** Red R/G/B: 255/0/0 White

DRIVE LINE SIGNS	
	**Gasoline-powered vehicle.** Symbol description: Fuel pump with 2 flames = highly flammable liquid. Colors: Red R/G/B: 161/37/3
	**Diesel-powered vehicle.** Symbol description: Fuel pump with 1 flame = flammable liquid. Colors: Grey R/G/B: 127/127/127
	**Bio diesel-powered vehicle.** Symbol description: Fuel pump with leaf, referencing to bio energy. 1 flame = flammable liquid. Colors: Green R/G/B: 80/224/22
	**Bio diesel-powered vehicle with for example 85% ethanol.** Symbol description: Fuel pump with leaf and added % of ethanol (E) This ethanol-percentage can vary. Flammability rises with % ethanol added. Colors: Green R/G/B: 80/224/22 Blue R/G/B: 0/32/96 Text: Arial rounded MT Bold

	**Hybrid Electric Vehicle: hybrid vehicle with 2 driving mechanisms: liquid fuel (e.g. Diesel) and electric.** Symbol description: Fuel pump with 1 flame = flammable liquid. High voltage symbol. Colors: Orange R/G/B: 255/165/0 Grey R/G/B: 127/127/127 Black Text: Arial rounded MT Bold
	**Electric Vehicle: electric vehicle with power grid-connector to recharge battery.** Symbol description: High voltage/plug in symbol. Colors: Orange R/G/B: 255/165/0 Black Text: Arial rounded MT Bold
	**Plug In Hybrid Electric Vehicle: hybrid vehicle with 2 driving mechanisms: liquid fuel (e.g. Diesel) and electric. Also power grid-connector to recharge battery.** Symbol description: Fuel pump with 1 flame = flammable liquid. High voltage/plug in symbol Colors: Orange R/G/B: 255/165/0 Grey R/G/B: 127/127/127 Black Text: Arial rounded MT Bold
	**Plug In Hybrid Electric Vehicle: hybrid vehicle with 2 driving mechanisms: liquid fuel (e.g. Gasoline) and electric. Also power grid-connector to recharge battery.** Symbol description: Fuel pump with 2 flames = highly flammable liquid. High voltage/plug in symbol Colors: Orange R/G/B: 255/165/0 Red R/G/B: 161/37/3 Black Text: Arial rounded MT Bold

	**Fuel Cell Electric Vehicle: electric vehicle powered by a hydrogen fuel cell.** Symbol description: H2 hydrogen atom/high voltage symbol The stored hydrogen is compressed. (C= compressed) Colors: Orange: R/G/B: 255/165/0 Blue: R/G/B: 0/176/240 White Text: Arial rounded MT Bold
	**Hydrogen powered vehicle: vehicle powered by hydrogen, direct combustion.** Symbol description: H2 hydrogen atom The stored hydrogen is compressed. (C= compressed) Colors: Blue: R/G/B: 0/176/240 White Text: Arial rounded MT Bold
	**Hydrogen powered vehicle: vehicle powered by hydrogen, direct combustion.** Symbol description: H2 hydrogen atom/ thermometer symbol The stored hydrogen is liquified by cooling it down (L= Liquefied) Colors: Blue: R/G/B:0/176/240 White Black Text: Arial rounded MT Bold

	**LPG (liquified petroleum gas) powered vehicle** Symbol description: G (gas) with arrow pointing downwards = heavier than air Colors: Green: R/G/B:0/176/80 White Black Text: Arial rounded MT Bold

	**CNG (compressed natural gas) powered vehicle.** Symbol description: G (gas) with arrow pointing upwards = lighter than air Colors: Green: R/G/B: 0/176/80 White Black Text: Arial rounded MT Bold
	**LNG (liquified natural gas) powered vehicle** Symbol description: G (gas) with arrow pointing up- and downwards = In case of gas leak at first heavier, after warming up lighter than air. The stored gas has been liquified by cooling it down. (L= Liquefied) Colors: Green: R/G/B: 0/176/80 White Black Text: Arial rounded MT Bold
	**Super capacitor high-voltage** Symbol description: Capacitor/high voltage symbol Colors: Orange: R/G/B: 255/165/0 Black
	**Super capacitor low-voltage** Symbol description: Capacitor Colors: Yellow: R/G/B: 255/255/0 Black
	**Combination: Diesel powered vehicle with super capacitor** (Start-stop system) Go to: Diesel powered vehicle Super capacitor low voltage

	**Combination: Gasoline/LPG powered vehicle** Go to: Gasoline powered vehicle LPG (liquified petroleum gas) powered vehicle