

**UNSER HEER** 



ENTR

# 4 Wheel Drive SMM-OSCE







### **Theoretical Part:**

- basics
  - vehicle inspection
  - tools and equipment
  - convoy rules
  - map-basics

### **Practical Part:**

- familiarize with vehicle
- vehicle inspection
- tool and equipment check
- off-road driving (moderate)
- navigate with map











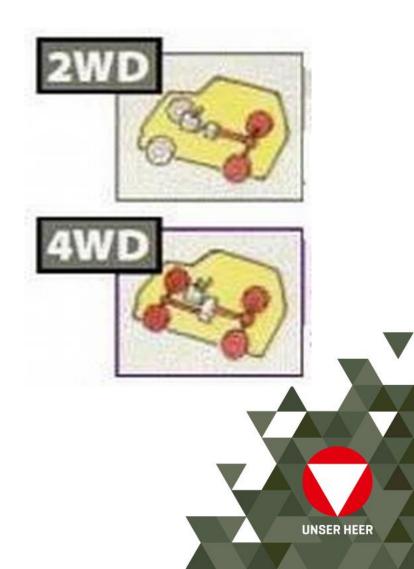
FWD Front Wheel Drive

**RWD Rear Wheel Drive** 

Full Time 4WD: permanent

Standby 4WD: usually 2WD – 4WD automatically if necessary

Part-time 4WD: usually 2WD – driver has to engage 4WD











**2 WD 'H2' ('high two')** dry, hard surfaced roads – most economic, quiet ride, the least wear.

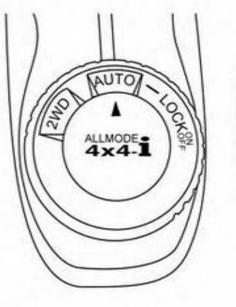
**4 WD 'H4' ('high four')** wet, icy, snow covered roads – muddy, slippery conditions – better traction than 2WD.

**4WD 'L4' ('Low four')** use for climbing/descending steep hills, off-road driving, sand, mud, deep snow and pulling of heavy loads (e.g. stuck vehicle) – maximum power and traction.











### **General rule:**

# STOP car before shifting into 4WD Low !!

Transmission can be damaged!!









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Locking hubs, also known as free wheeling hubs





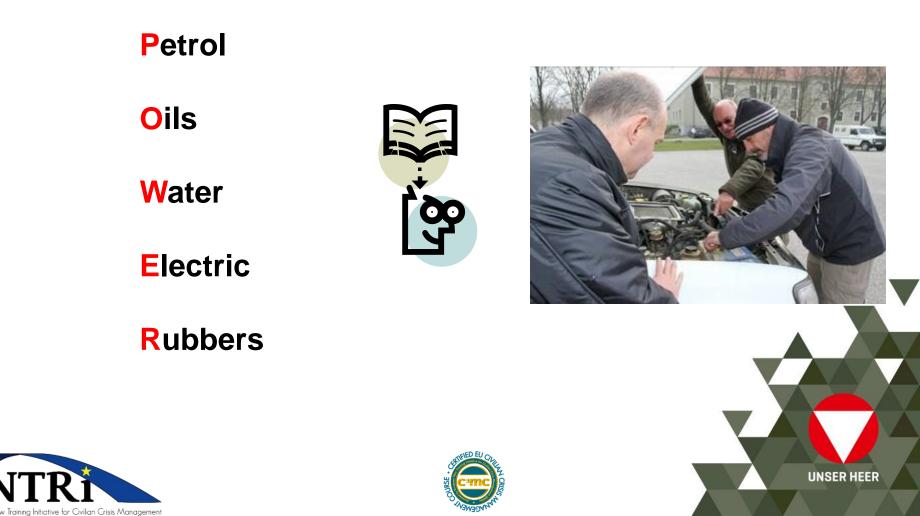
# VEHICLE INSPECTION OSCE



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### WHAT SHOULD I CHECK BEFORE OPERATING THE VEHICLE?



# VEHICLE INSPECTION OSCE



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- General body and chassis condition (dents, scratches, etc.)
- Tyre tread and tyre pressure
- Windows, doors and locks are operational
- Brake-fluid level
- Fan belt wear and tension (alternator, power steering)
- Oil level





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# VEHICLE INSPECTION OSCE



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- Power-steering fluid level
- Radiator water level
- Windscreen-fluid level and wiper blades
- Fuel level
- Lights: headlights, tail lights, brake lights, indicators, reverse lights;





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# TOOLS AND EQUIPMENT OSCE



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- First Aid Kit
- Basic tool kit
- Car jack & wrench
- Spare wheel
- Tow rope & winch
- Communication Systems









# TOOLS AND EQUIPMENT OSCE



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- Drinking water & grab bag
- Emergency reflector triangle
- Fire extinguisher
- Torch and extra batteries, spare bulbs
- Jumper cable/leads
- Compressor (tires)









## **CONVOY RULES**





- keep visual contact with the vehicle in front and backwards >> lights on! (distance between cars ... security/safety)
- stop every two hours to check vehicles and rest
- keep original order!
  - No vehicle will pass any other
  - If any vehicle stops, all will stop
- arrival at destination >> report to base!
- (abort operation if required due to the security situation)





## **Off Road driving**





- •As slow as possible, as fast as necessary
- •Use "Low Range" (or lowest gear available)
- •On steep descents, use "Low Range" (use engine break)
- •Reduce tyre pressure (mud, sand, snow)
- •Don't be afraid to turn around
- Scratches are "not" avoidable







#### ANNEX 1

Receiver Copy Asset Management Copy Filing Copy			osce		
		OSCE SMMU HANDOVER DOCUMENT			
Recipients		Section:		Handover Location: Kyiv,	Ukraine
Line No.	Item (incl. Manufacturer and Model)	Qty.	Tag Number	Serial Number	Remarks
1	ARMOURED VEHICLE TOYOTA	1			
2	SAT. DOCKING STATION	1			
3	VHF Radio	1			
4	FUEL CARD	1			
5	TRACKING SYSTEM	1			OSCE
6	SPARE KEY	1			
7	GPS	1			
8	SATELLITE TELEPHONE	1			
9	SIM	1			
	Name & Signature of Person handing over			Recipient Signature	

- This document can only be authorized by Issuing Office (FAU). The hand-over document registers the recipient as the responsible custodian for this equipment.
-A direct hand over of equipment from one staff member to another is not permitted. The equipment should be returned to the issuing office, should the staff member no longer require it.

-In case of loss or damage, the custodian should inform the Issuing Office immediately.

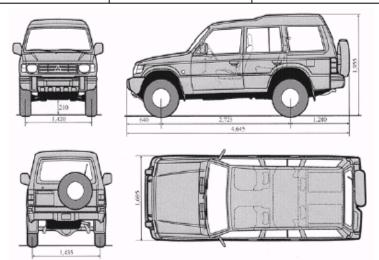
- Costs associated with loss or damage of the OSCE property in custody of the individual will be decided by the FMMC.

#### VEHICLE HAND OVER FORM

On the basis of attached correspondence

#### Vehicle Hand Over Form

Plate Number	Type:	Mileage:
OSCE 145 MU	Toyota LC-200	11,164
	Fuel type: Diesel	



 $\mathbf{m}\mathbf{m}$ 

Scratch: S	Damage: D	Broken: B	
Remarks:			

## DOCUMENTS





- Emergency contact information
- (Operational) area maps
- Owner's manual
- Vehicle insurance and registration papers
- Vehicle trip ticket
- Fuel card
- According to regulation of SMM copies of agreements







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# TRAFFIC ACCIDENTS OS



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Report (by radio to NCS)



- <u>Who</u> ... Patrol LIMA ...
- <u>Where</u> ... between RP E17 and E18, at grid XX-XX ...
- What ... traffic accident of 2nd Patrol vehicle, no personal injured ...
- <u>When</u> ... at 1530 hrs ...
  - **How** ... vehicle slipped off the tarmac road ...
- <u>(Why)</u> .....
- What kind of assistance is required?!







# TRAFFIC ACCIDENTS OSCE



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Actions at the spot:

- Assess possible hazards (traffic, leaking lubricants, etc.)
- Secure incident site (hazard triangle, hazard lights, etc.)
- Apply first aid
- Third party involved: local traffic police accident form: NO commitments/signatures before clearance of own field office







## Impressions





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# TOYOTA Land Cruiser OSCE

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Armoring Specifications	
Ballistic Specifications	
Vertical Areas: minimum standard VPAM BRV 2009 VR7 level of p	rotection
Fransparent (vertical) areas: minimum standard VPAM BRV 2009	VR7 level of protection
Roof: protection from projectiles specified in above standard at in	npact of less than 30 degrees
Floor: protection against anti-personnel mines or detonation of simultaneously (type DM51 or RGD5)	two anti-personnel hand grenades per sqm detonated
Glass: All original OEM glass to be replaced with ballistic glass VPAM BRV 2009 VR7 level of protection)	(tested and certified in accordance with the standard
Body: Full armoring of the vehicle passenger compartment	
Fuel tank: Protection from detonation of 2 hand grenades (DM51 splinters	or RGD5 type) per sqm under the vehicle, projectiles and
Ballistic tests shall be performed to certify withstanding the follow	wing projectiles:
7.62x39mm, 57-N-231, bullet PS (AKM)	
5.45x39mm, 7N6, bullet PS (AK-74)	
7.62x51mm, NATO M80, lead core bullet (Enfield SLR L1A1)	
7.62x54mm, 57-N-323S, bullet LPS (Dragunov SVD)	
5.45x39mm, 7N10, bullet PP (AK-74)	
5.56x45mm, M855 or SS109 NATO (Colt M 16A2)	









## **QUESTIONS ?**











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### Convoy briefing map













## Convoy briefing map









Part 2





### Teamwise Präsentation of 5 min's

### Preparation time 10 min's

### LL/LI ? What was good/bad? Car check?



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