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AGREEMENT

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Humanitarian Mine Action - EOD Competency Standards - Part 4: Competency for EOD level 4

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Foreword

This CEN Workshop Agreement has been prepared under a mandate and funded by EC DG AIDCO.

The following organisations have been members of the workshop and contributed to the CWA. Belgian Armed Forces, Danish Demining Group, French Armed Forces, Geneva International Centre for Humanitarian Demining, International School for Security and Explosives Education, Mines Advisory Group, MAG, NATO Standardisation Agency, Science Technology and Manufacturing Technologies Alliance (SEMTA) and the Standards Setting Body for Explosives, Munitions and Search Occupations (SSB for EMSO), Spanish Armed Forces, Swedish EOD and Demining Centre, SWEDEC, Swedish Rescue Services Agency, Swiss EOD Centre, Turkish Armed Forces, United Kingdom Department for International Development, United Nations Mine Action Services, UNMAS.

The secretariat was held by SIS Swedish Standards Institute.

The final review/endorsement round for this CWA was successfully closed during the final meeting of 2005-07-05.

The final text of this CWA was submitted to CEN for publication on 2005-10-27.

This CWA will be handed to the Geneva International Centre For Humanitarian Demining, GICHD for integration into the International Mine Action Standards (IMAS) collection."

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1 KNOWLEDGE BASE

1.1 Explosive Ordnance Recognition

- 1.1.1 Land service ammunition and fuses - generic
- 1.1.2 Land service ammunition and fuses - detailed
- 1.1.3 Mines- generic
- 1.1.4 Mines- detailed
- 1.1.5 Submunition - generic
- 1.1.6 Submunition - detailed
- 1.1.7 Air Dropped Weapons - generic
- 1.1.9 Guided Weapons - generic
- 1.1.11 Booby traps and improvised munitions awareness

1.2 Explosives Theory and Safe Handling of Explosives Ordnance

- 1.2.1 The differences and applications of high and low explosives.
- 1.2.2 The principles and objectives of explosive trains.
- 1.2.3 The principles of explosive power.
- 1.2.4 Blast effects and their uses.
- 1.2.5 Methods of reducing blast effects.
- 1.2.6 Movement of Explosive Ordnance

1.3 Methods of Disposal

- 1.3.1 Electrical and Non-electrical means of initiation
- 1.3.2 Use of Pyrotechnic devices to destroy by burning
- 1.3.3 Use of sufficient high explosive quantities to destroy explosive ordnance on which they have received training
- 1.3.4 High order techniques
- 1.3.5 Ring Main
- 1.3.6 Line Main
- 1.3.7 Detonation by propagation – pit lay out
- 1.3.9 Disposal by Burning

1.4 Safety Precautions

- 1.4.1 Personal and personnel safety
- 1.4.2 Equipment safety
- 1.4.3 Explosives safety distances
- 1.4.4 Protective measures

1.5 Storage and Transportation of Explosives

- 1.5.1 Health and safety and explosive legislation
- 1.5.2 Environmental issues
- 1.5.3 Explosive safety
- 1.5.4 Explosive storage areas
- 1.5.5 Explosive transportation
- 1.5.6 Explosive security

1.6 Management of Demolition Sites

- 1.6.1 Selection and layout of disposal site
- 1.6.2 Management of disposal site

2 EQUIPMENT

2.1 Gather and prepare search or explosive ordnance disposal equipment

- 2.1.1 Individuals must demonstrate that they obtain the necessary information on the equipment required;
- 2.1.2 Individuals must demonstrate that they carry out tests to ensure the serviceability of the equipment, reporting any defective equipment through the appropriate channels;
- 2.1.3 Individuals must demonstrate that they prepare the equipment correctly for use;
- 2.1.4 Individuals must demonstrate that they meet operational requirements and organisational procedures;
- 2.1.5 Individuals must explain the environment in which the task will take place;
- 2.1.6 Individuals must explain how to inspect, test and prepare equipment;
- 2.1.7 Individuals must explain acceptable tolerances of accuracy of the equipment;
- 2.1.8 Individuals must explain the characteristics and hazards of the equipment;
- 2.1.9 Individuals must explain operational requirements and organisational procedures.

2.2 Operate search or explosive ordnance disposal equipment

- 2.2.1 Individuals must demonstrate that they operate the equipment correctly according to the manufacturer's instructions;
- 2.2.2 Individuals must demonstrate that they take readings and measurements accurately;
- 2.2.3 Individuals must demonstrate that they challenge any inaccuracies or inconsistencies of information;
- 2.2.4 Individuals must demonstrate that they make any necessary adjustment to the equipment;
- 2.2.5 Individuals must demonstrate that they report any problems to the appropriate authority;
- 2.2.6 Individuals must explain the capabilities, limitations and uses of resources;
- 2.2.7 Individuals must explain how to operate the equipment correctly;
- 2.2.8 Individuals must explain the importance of operating the equipment correctly and the consequences of not doing so;
- 2.2.9 Individuals must explain why a reading may be incorrect and how to deal with it.

2.3 Maintain search or explosive ordnance disposal equipment

- 2.3.1 Individuals must demonstrate that they carry out regular routine maintenance checks in accordance with the servicing schedule;
- 2.3.2 Individuals must demonstrate that they report any defective equipment and organise its repair or replacement;
- 2.3.3 Individuals must demonstrate that they monitor consumables continuously and arrange for their replenishment;
- 2.3.4 Individuals must demonstrate that they maintain all equipment within the specified levels at all times;
- 2.3.5 Individuals must demonstrate that they comply with operational requirements and organisational procedures;
- 2.3.6 Individuals must explain the requirements of the servicing schedule;
- 2.3.7 Individuals must explain the equipment's normal functioning and acceptable limits of deviation;
- 2.3.8 Individuals must explain operational requirements and organisational procedures;
- 2.3.9 Individuals must explain how to report any defective equipment and the importance of following up.

2.4 Manage search or explosive ordnance disposal equipment

- 2.4.1 Individuals must demonstrate that they carry out regular inspections of the servicing log for all equipment in use;
- 2.4.2 Individuals must demonstrate that they monitor defects through a defect reporting schedule;
- 2.4.3 Individuals must demonstrate that they manage the consumption and order of consumables through the organisation's logistic system;
- 2.4.4 Individuals must demonstrate that they ensure all personnel comply with operational requirements and organisational procedures;