

## **Annex D to SNMAS 04.01 Minimum Requirements of Formal Mine Action Training Courses**

### **Minimum Requirements of Formal Mine Action Training Courses**

#### **1. Mine Action Training Management Package (TMP)**

A TMP is a set of documents that provide all the information necessary to run formal training. At minimum, the following aspects shall be considered as part of mine action TMPs:

- 1) The name and title of the training;
- 2) Training, session and lesson objectives;
- 3) Set of session plans and schedule;
- 4) Description of activities and practical exercises;
- 5) Practical exercises duration;
- 6) Training testing tool, pass and fail criteria;
- 7) Power point presentations and handouts;
- 8) List of training equipment;
- 9) List of training aids and facilities;
- 10) Reference materials; and
- 11) Training administrative procedures.

A comprehensive TMP should permit a trainer to efficiently and effectively plan and deliver formal training and at the same time provide a concise overview of the entire training program.

#### **2. Contents of Formal Mine Action Training Courses**

The minimum subjects to be covered as part of formal mine action training courses shall include, but not limited to the following:

##### **2.1. Non-Technical Survey training:**

- 1) NTS background in Sudan.
- 2) Importance and purpose of NTS.
- 3) Terms, definitions relating to NTS.
- 4) SHA and CHA criteria, including direct and indirect evidence.
- 5) Evidence-based decision making.
- 6) NTS outputs.
- 7) Cancellation procedure and reporting.
- 8) Non-technical survey methodology.
- 9) Initial screening of information.
- 10) NTS planning.
- 11) Sources of information.
- 12) Assessment and classification of sources of information
- 13) Dividing hazardous areas to manageable tasks.
- 14) NTS tools including GPS, compass, range finder, stationery and marking materials.
- 15) Measurement and mapping in NTS.
- 16) NTS documentation and reporting.
- 17) Quality assurance in NTS.
- 18) Community liaison.

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- 19) Interview techniques.
- 20) NTS marking.
- 21) IMSMA hazard form and reporting.

### **2.2. Technical Survey Training:**

- 1) What is technical survey.
- 2) Purpose of technical survey.
- 3) Technical survey terms and definitions.
- 4) Technical survey requirements.
- 5) Principles of technical survey.
- 6) Conduct of technical survey.
- 7) Technical survey information and recommendation.
- 8) Role of technical survey in land release.
- 9) Technical survey methodology.
- 10) Technical survey assets.
- 11) Targeted investigation.
- 12) Systematic investigation.
- 13) Fade out technical survey.
- 14) Outside in technical survey.
- 15) Full coverage technical survey.
- 16) Technical survey outputs.
- 17) Area reduction by technical survey.
- 18) Technical survey documentation.
- 19) Technical survey mapping.
- 20) Area calculation.
- 21) Technical survey requirements.
- 22) Technical survey forms and reporting.

### **2.3. Basic Demining Course**

- 1) The history of mine and Explosive Remnants of War (ERW) in Sudan.
- 2) Recognition and understanding mines, including AP blast mines, AP fragmentation mines, AT mines and directional mine that are used in Sudan.
- 3) Recognition and understanding of fuses;
- 4) Recognition and understanding of ERW;
- 5) General information about Booby Traps;
- 6) Recognition and understanding of mined areas and areas contaminated with ERW.
- 7) Importance of Mine and ERW clearance.
- 8) Detector used in demining operations in Sudan, including those used for mine clearance and those used in BAC operations.
- 9) How to use detectors both in theory, practical for preparing a detector and practical use of detector;
- 10) Identifying signals, in theory and practical;
- 11) Prodding and excavation to investigate detected signals;
- 12) Marking of clearance lanes;

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- 13) Minefield and battlefields marking system, including control markers, boundary marking, clearance lane marking and clearance marking;
- 14) Methods of manual clearance, including use of tripwire feeler, detector sweep, pinpointing and investigation;
- 15) Vegetation removal and burning vegetation;
- 16) Protective Equipment and their use in demining operations;
- 17) Demolition including single item demolition;
- 18) Electrical and nonelectrical demolition;
- 19) Demolition protective work, protective trench and sandbags wall;
- 20) Deminers tools and equipment.
- 21) Site setting out and safety, including admin area, parking area, explosive storage area, metal pits and control points;
- 22) Medical support and first aid;
- 23) Demining worksite communication;
- 24) Explosive management;
- 25) Camping.

### **2.4. Demining Leadership Training**

- 1) Duties and responsibilities of a demining and survey team;
- 2) Duties and responsibilities of team command and control group;
- 3) Mine action organization administrative forms;
- 4) NMAC approved IMSMA forms;
- 5) Minefield and battlefield measurement and mapping;
- 6) Use of GPS and recording coordinates;
- 7) Establishing a demining worksite, control markers and marking system;
- 8) Establishing baseline and identification of high and low threat areas;
- 9) Deployment of the team to the task;
- 10) Control point and supervision;
- 11) Elements of command and control at the worksite;
- 12) Safety and discipline in a demining worksite;
- 13) Medical support and positioning medic and first aid kit;
- 14) Importance and use of safety equipment including PPE;
- 15) Maintaining and essential of communications;
- 16) Leadership skills, control and managing demining operations;
- 17) Supervision and monitoring of deminers during operations;
- 18) Routine quality control;
- 19) Maintaining records including team member attendance, daily progress, quality control, explosives, faults and shortfalls, correction and on the spot remedial;
- 20) Demolition and its safety aspects, establishing local CDS;
- 21) Identification of Safe-to-Move and Unsafe-to-Move ERW;
- 22) Explosive management in worksite and basecamp;
- 23) Task dossier and its contents;
- 24) Community liaison and its importance;
- 25) Camping and maintenance of health and hygiene;
- 26) Environmental protection;
- 27) Maintaining quality of demining and survey operations;

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- 28) Reporting, completion and handing over.

### **2.5. Explosive Ordnance Disposal Level 1**

- 1) Introduction to Mine Action
- 2) Introduction to EOD operations
- 3) Introduction to UXO, AXO and ERW
- 4) Explosive Theory and Safe Handling of Explosive Ordnance
- 5) Safety Precautions
- 6) Fuse Arming Forces
- 7) Land service ammunition and fuses
- 8) Landmines used in Sudan
- 9) Booby traps
- 10) Sub-munitions or cluster munitions
- 11) Air dropped weapons - bombs
- 12) General transportation, storage, and safety of explosives
- 13) Medical support and first aid
- 14) Methods of Disposal single item disposal
- 15) Introduction to demolition material
- 16) Dispose of explosive ordnance – Charge placement
- 17) Search and EOD Equipment and Demonstration
- 18) Battle Area Clearance – Methodology
- 19) Protective Works
- 20) Explosive Ordnance Identification
- 21) BAC task planning
- 22) Basic Demolitions – Initiating Sets, Priming and Firing Systems
- 23) EOD Task management and final disposal – inert ordnance
- 24) EOD Task management and final disposal – live ordnance

### **2.6. Explosive Ordnance Disposal Level 2**

In addition to the topics covered under the EOD Level 1, the EOD Level 2 shall including below subjects:

- 1) Introduction to Mine Action
- 2) Introduction to EOD operations
- 3) Explosive Theory and Safe Handling of Explosive Ordnance
- 4) Booby traps and improvised ammunition
- 5) Sub-munitions or cluster munitions and cluster munitions site management;
- 6) Guided Weapons
- 7) EOD Reconnaissance
- 8) Identification and safe transportation of Safe-to-Move ERW
- 9) ORDATA – Collaborative ordnance data repository
- 10) Medical support and first aid and CASEVAC
- 11) Methods of Disposal of EO
- 12) Multiple items disposal
- 13) Management of CDS
- 14) Post demolition procedures
- 15) Electric and non-electric charges and charge placement

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- 16) Details about demolition material
- 17) Initiating Sets, Priming and Firing Systems
- 18) Management - risk analysis and mitigation
- 19) Movement of explosive ordnance
- 20) Battle Area Clearance and worksite preparations and management
- 21) Implement Protective Measures
- 22) Protective Works in EOD operations and demolitions
- 23) Explosive Ordnance Identification and classification
- 24) EOD Reconnaissance in destroyed ammunitions depots
- 25) BAC task planning and operations
- 26) EOD and BAC task completion and reporting

### **2.7. Explosive Ordnance Disposal Level 3**

In addition to the topic covered in EOD Level 1 and Level 2, EOD Level 3 shall cover below subjects:

- 1) Maritime EO - generic
- 2) Liquid propellant fueled EO - generic
- 3) Chemical EO – generic
- 4) Biological EO – generic
- 5) Fuel Air Explosive (FAE) systems
- 6) Disposal by Burning
- 7) HME handling protective measures
- 8) Management of mixed item logistic demolitions
- 9) Understand generic management requirements of Level 3+ EOD operations
- 10) Employing Electronic Counter Measures (ECM);
- 11) Safety implications of using ECM.
- 12) Safely use ECM
- 13) Hazards associated with guided weapons
- 14) Hazards associated with HME
- 15) Potential risks during EOD operations;
- 16) Acceptable levels of risk;
- 17) Methods for minimizing risks;
- 18) Planning and management of EOD operations;
- 19) Different methods of confirming correct locations;
- 20) Collection and analysis of information including feedback and progress reports;
- 21) Render safe' or 'final disposal' procedures.

### **2.8. First Aid Training Course**

- 1) What is first aid, what are the responsibilities of the first aid provider, communicating with a casualty, reassurance techniques, calling for help Minimum Time Period of first aid response.
- 2) Principles of First Aid.
- 3) Immediate Control of Life Threats: Danger, Response, Airway, Breathing and Circulation.
- 4) Basic Airway Maintenance and Respiration.
- 5) Management of A Choking Patient.

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- 6) Signs and Symptoms of choking, airway clearance techniques using finger sweeps, back slaps.
- 7) Techniques for single and two responders for CPR as a minimum
- 8) Emergency CASEVAC
- 9) Hyperthermia, Hypothermia prevention use of blankets.
- 10) Mine or ERW blast injury and bleeding control.
- 11) Management of Bites and Stings.
- 12) Health and Safety.
- 13) Safe Lifting, prevention of Back injury, Safe Lifting techniques.
- 14) Health and Hygiene.
- 15) First aid to a choking patient
- 16) Bleeding Control, using pressure point, pressure dressings.
- 17) CPR Practical, single responder and two responder CPR techniques using the DRABC approach.
- 18) Safe lifting techniques.
- 19) Safe ambulance and (where appropriate) helicopter approach, loading and transport of a casualty.
- 20) Assisting the Medic.
- 21) Practical CASEVAC exercise conducted in training area.

### **2.9. Paramedic Refresher Training Course**

- 1) Background and nature of demining operations.
- 2) Demining worksite and paramedic locations.
- 3) Medical kit and first aid kit.
- 4) Roles and responsibilities of paramedic in a demining team.
- 5) Demining team's medical support.
- 6) Communications requirements.
- 7) Ambulance, CASEVAC and MEDEVAC.
- 8) Minimum Time Period for provision of response.
- 9) Principles of First Aid and casualty stabilization.
- 10) What is first aid and casualty stabilization, what are the responsibilities of medic, communicating with a casualty, reassurance techniques, calling for help.
- 11) Immediate Control of Life Threats: Danger, Response, Airway, Breathing and Circulation.
- 12) Basic Airway Maintenance and Respiration.
- 13) Head positioning, placing a casualty in the recovery position, jaw thrust technique for suspected spinal injury.
- 14) Expired air resuscitation, Bag Mask Ventilation.
- 15) Management of A Choking Patient.
- 16) Signs and Symptoms of choking, airway clearance techniques using finger sweeps, back slaps.
- 17) Cardiopulmonary Resuscitation Theory.
- 18) Techniques for single and two responders for CPR as a minimum
- 19) Emergency CASEVAC
- 20) Heat Disorders
- 21) Hyperthermia, Hypothermia prevention use of blankets.
- 22) Mine or ERW blast injury and bleeding control.

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- 23) Burn injury, first aid and dressing.
- 24) Management of Bites and Stings.
- 25) Health and Safety.
- 26) Safe Lifting, prevention of Back injury, Safe Lifting techniques.
- 27) Health and Hygiene, disease prevention measures.
- 28) Helicopter safety and HLS requirements
- 29) Airway Management, placing a casualty in lateral position, jaw thrust, chin lift, first aid to a choking patient.
- 30) Ventilation Practical, expired Air Ventilation and Bag Mask ventilation.
- 31) Bleeding Control, using pressure point, pressure dressings.
- 32) CPR Practical, single responder and two responder CPR techniques using the DRABC approach.
- 33) Fracture and dislocation first aid, using splints, slings.
- 34) In line spinal immobilization, use of head block.
- 35) Safe lifting techniques.
- 36) Safe ambulance and (where appropriate) helicopter approach, loading and transport of a casualty.
- 37) Medic assisting process by deminers and team members.
- 38) Practical CASEVAC exercise conducted in training area.