

PROGAM: Conventional Explosive Ordnance Disposal (EOD) Competency Standards as per IMAS Standards			
Designation	Modules	Training	Methodology
Theory & Knowledge			
EOD 2	1	Understand which forces may trigger an Impact Fuze in its armed state.	Visual/Oral
	2	Understand the likely arming forces for a Mechanical Time Fuze and any specific hazards.	Timed Written Exam
	3	Understand which force may trigger a Igniferous/Pyrotechnic Time fuze in its armed state.	Visual/Oral
	4	Understand which force may trigger an Electronic or Electro Mechanical Fuze in its armed state.	Visual/Oral
	5	Understand the likely arming forces for Base Detonating Fuzes and any specific hazards.	Timed Written Exam
	6	Understand the likely arming forces for Air Dropped Fuzes and any specific hazards	Timed Written Exam
	7	Understand which force may trigger a Spit Back fuze in its armed state.	Visual/Oral
	8	Understand the likely arming forces for an Always Acting Fuze and any specific hazards.	Timed Written Exam
	9	Understand the likely arming forces for a cocked striker fuze and any specific hazards.	Timed Written Exam
	10	Understand explosive train of an item of EO including general types of explosive likely to be found at each stage.	Timed Written Exam
	11	Be able to identify relevant models as well as categories and sub categories of common ordnance found in area of operations.	Timed Written Exam
	12	Understand ground compensation for detectors in specific soil area. E.g. laterite soil.	Focused Skill Test
	13	Assist in preparing explosive stores for deflagration techniques such as use of skylight or magnesium shaped charge should task context require.	Focused Skill Test
	14	Assist in preparing EOD weapons for fuze removal techniques such as cracker, barrel or de-armor should task context require	Focused Skill Test
	15	Assist in preparing non-explosive stores for pyrotechnic techniques should task context require.	Assessed Live talk
	16	Understand how donor charges work and appreciate placement on different categories of EO	Timed Written Exam
	17	Understand the importance of following the Level 3s plan for a up to 50kg NEQ dem and supervise accordingly	Timed Written Exam

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	18	Be able to utilise High Explosive and Low Explosive for use in EOD Operations when required.	Timed Written Exam
	19	Be able to understand and explain the component parts of an explosive train and its use in EOD and how it is used in demolitions	Timed Written Exam
	20	Be able to understand the difference between difference between Primary and Secondary high explosives and the use of the term tertiary high explosives required a booster to initiate (e.g. ANFO).	Timed Written Exam
	21	Understand and positively identify AP/AT mines and mines found historically. Know recognised RSPs for AP/AT mines	Timed Written Exam
	22	When authorised in writing conduct recognised RSP on certain submunitions based on a sound understanding of its function and danger area. Be able to calculate and demonstrate the area required for evacuation	Timed Written Exam
	23	Gain an understanding of IEDs and their types. Lessons to include likely scenarios where IEDs can be suspected	Visual/Oral
	24	Understand and identify Rockets including main Free Flight Rockets	Visual/Oral
	25	Understand and identify handheld and Propelled/Projected/Rifle Grenades	Visual/Oral
	26	Understand describe and identify artillery by class and function	Visual/Oral
	27	Understand describe and identify Mortars by class and function	Visual/Oral
	28	Understand describe and identify Air Delivered weapons by class and function and guidance systems in used.	Visual/Oral
	29	Demonstrate an understanding of Shaped Charges and how they work. Identify weapons that utilise Shaped Charges and identify weapons capable of using them. Understand how shaped charges are used in EOD	Visual/Oral
	30	Be able to calculate and demonstrate the area required for evacuation during EOD operations.	Timed Written Exam
	31	Be able to calculate and demonstrate the area for evacuation when destroying fragmentation ammunition.	Timed Written Exam
	32	Be able to calculate and demonstrate the area for evacuation when destroying HESH/HE-P ammunition	Timed Written Exam

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	33	Know key IMAS relevant to organisation / team role. E.g. IMAS 09.30. TEP 09.30	Visual/Oral
	34	Aware of potential cluster munition strike shapes from different types of cluster munition. E.g. fin stabilised submunitions vs spin stabilised submunitions	Visual/Oral
	35	Recognise signs that a cluster munition strike area is being encountered through identification of different types of indirect and direct evidence.	Visual/Oral
	36	Understand how minefield location relate to combatant tactics.	Timed Written Exam
	37	Aware of various standard minefield patterns used historically. E.g. Soviet, US patterns etc.	Visual/Oral
<b>EQUIPMENT SKILLS</b>			
EOD 2	1	Under direction and supervision of EOD-3 setup and coordinate semi remote movement of various sizes of UXO using hook and line	Visual/Oral
	2	Under direction and supervision of EOD-3 setup and coordinate semi remote movement of various sizes of UXO using hook and line	Visual/Oral
	3	Be able to connect and fire all exploders used within the organisation and be able to fault find in the event of a failure of the exploder.	Visual/Oral
	4	Assist in preparing EOD weapons for use including de-armers and disruptors	Focused Skill Test
	5	Generate comms plan for specific location based on knowledge of terrain and coverage issues. Understand need for at least two means of communication.	Focused Skill Test
<b>Practical EOD Skills</b>			
EOD 2	1	Conduct basic lines of questioning to gain information on target EO from witnesses	Assessed Time Stimulated Task
	2	Actively collate evidence gathered during EO search and locate stages to inform threat assessment. e.g. AP mine packaging positively identified	Visual/ Oral
	3	Be able to work within a team to reduce the effects of blast by using tamping techniques. Be able to produce a plan for the reduction in blast effects around property and be confident to implement it	Timed written Exam
	4	Risk assess fire hazard associated with open burning open demolition operations, especially in dry environment	Focused Skill Test
	5	Coordinate setup of propellant burn as delegated by Level 3 or 3+	Visual/ Oral

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	6	Setup burn process (burn tank, burn barrel etc.) , including preparation of items, as delegated by Level 3 or 3+	Focused Skill Test
	7	Prepare electric or igniferous initiation trains for use in dems sites or during RSP, delegated by Level 3 or 3+. Adhere to safety rules	Focused Skill Test
	8	Assist in conducting a burn process for SAA with simultaneous parallel burn tanks as delegated by EOD-3	Focused Skill Test
	9	Understand different circuit configurations for multi item and logistic demolitions. Understand the advantages and disadvantages of series and parallel circuits	Assessed Live Task
	10	Able to prepare safety fuze and test - aware of potential for hygroscopic ingress and possible effect of this, able to prepare shocktube as an alternative	Focused Skill Test
	11	Set up ring mains and mainlines for demolition for multiple items spread over an area	Focused Skill Test
	12	Conduct task scene management in any environment for demolition multiple items of EO on which recorded in writing as trained	Assessed Live Task
	13	Design basic demolition plan for multi item demolition using ring main or main line to destroy items in situ	Assessed Live Task
	14	Be able to fully demonstrate and correctly identify EO in theatre both by sub-category and for key EOD by model; also identify by other means of classification such as function, size and associated hazards	Visual/ Oral
	15	Understand that clear knowledge of fuzing is required to assess risk of moving EO. Able to make EO move decisions on items on which they have been trained and recorded in writing as authorised by an EOD-3 or above	Focused Skill Test
	16	Understand the safety difference between ordnance that has been fired and that which hasn't. Know common indicators, e.g. scored driving band of projectile	Visual/ Oral
	17	Correctly ascertain whether ordnance has been fired or not	Visual/ Oral
	18	Aware that certain types of ordnance have additional hazards associated with them and know all appropriate items in local area, e.g. PG-7 piezo fuze	Visual/ Oral
	19	Conduct EOR as authorised by EOD-3 in order to identify or confirm EO threat.	Assessed Live task
	20	Know in general the range of associated evidence for a given threat in area of operations. E.g. Submunition fragmentation indicating a possible cluster strike	Visual/ Oral

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	21	Know in general the range of associated evidence for a given threat in area of operations. E.g. Submunition fragmentation indicating a possible cluster strike	Assessed Live Task
	22	Be able to take images of specific parts of EO and associated evidence. E.g. Trip wire spool associated with AP mine	Visual/ Oral
<b>Management &amp; Leadership</b>			
EOD 2	1	Recognise and manage fatigue in team to reduce risk of human error	Visual/ Oral
	2	Aware of accident theory: swiss <sub>1</sub> cheese model and compounding errors, fatigue and biases. Recognise when to pause EOD task, and re-plan especially if risk assessment changes. E.g. civilians in danger zone.	Visual/ Oral
	3	Conduct demolition of single items of non-persistent WP ammunition as part of multi item demolition while understanding risks inherent with WP disposal.	Focused Skill Test
	4	Act as "sounding board" for Level 3 during RSP formulation. Be able to question Level 3 in a constructive manner.	Assessed Time Stimulated Task
	5	Record location of ERW and mines using GPS or using GIS tools without endangering self or others	Visual/Oral
	6	Plan and implement Roving EOD tasks within the scope authorised in writing by an EOD <sub>1</sub> 3.	Focused Skill Test
	7	Ensure that processes are carried out to set organisation standards ensuring they are compatible with national standards	Visual/Oral
	8	Ensure that team members work to standards that will allow them to be appropriately accredited	Visual/ Oral
	9	Facilitate quality monitoring visits and inspections by internal and NMAA quality management staff	Visual/ Oral
<b>Deployment &amp; Post Task</b>			
EOD 2	1	Know the tasking chain and how EOD tasks are disseminated	Visual/ Oral
	2	Supervise the correct method of recovery from an uncleared site of an injured person and co <sub>1</sub> ordinate the correct response from a medical team.	Visual/ Oral
	3	In conjunction with team medic / paramedic, check medical equipment as part of pre-task activity	Visual/ Oral

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	4	Track team qualifications and currency on medical equipment and procedures	Visual/ Oral
	5	Rehearse the medevac chain, including driving with simulated casualty to medical facility and preparing route cards for drivers. Carry out medevac training on all new sites and weekly thereafter.	Visual/ Oral
	6	Supervise and assist in conducting pre- EOD task checks	Visual/ Oral
<b>Reporting &amp; Data</b>			
EOD 2	1	Complete EOD task log for individual EOD tasks and enable verification by mine action organisation	Visual/ Oral
<b>Storage &amp; Transport</b>			
EOD 2	1	Know relevant legislation as detailed in SOPs as it applies to ammunition movement	Timed Written Exam
	2	Prepare vehicle signage and paperwork as required	Focused Skill Test
	3	Act as coordinator or liaison with other agencies, organising moving support for ammunition movement	Focused Skill Test
	4	Prepare vehicle to receive and carry ammunition	Focused Skill Test
	5	Supervise packaging of EO to agreed package design	Assessed Team Task
	6	Know and be able to explain all hazard divisions and HCCs as per UN International System of Classification	Timed Written Exam
	7	Accurately record all recovered AXO using appropriate process	Assessed Live Task
	8	Monitor holdings against licenced limits and inform where necessary	Assessed Live Task