

# UEMS Incident Reporting Template (IRT)

1. When? (When did the UEMS incident occur?)		2. Where? (Where did the UEMS incident occur?)	
Date (yyyy/mm/dd)	<input type="text" value=" / /"/>	Country	<input type="text"/>
Hour (hh:mm) [using 24-hour clock]	<input type="text" value=" :"/>	City or town	<input type="text"/>
Weather conditions (e.g. temperature °C, light, wind, rain, lightning)		Site/location name	

3. Who? (Who owns or manages the site and the contents on it?)			
3.1. Who owns or manages the site?		3.2. What type of facility housed the munitions?	
Owner	<input type="checkbox"/> state	<input type="checkbox"/> non-state	3.2.1. Status of storage site?
	manager (if different)		<input type="checkbox"/> permanent <input type="checkbox"/> temporary
Details (e.g. type)	<input type="checkbox"/> police	<input type="checkbox"/> military	3.2.2. What types of activity took place there?
	<input type="checkbox"/> private company	<input type="checkbox"/> armed group	<input type="checkbox"/> storage
	<input type="checkbox"/> foreign (e.g. peacekeeping force)	<input type="checkbox"/> other (e.g. criminal gang), specify:	<input type="checkbox"/> processing
<input type="checkbox"/> other (e.g. state companies), specify:	<input type="checkbox"/> other (e.g. criminal gang), specify:	<input type="checkbox"/> loading/unloading	3.2.3. What was the design of the storage facility?
		<input type="checkbox"/> purpose-built storage	<input type="checkbox"/> non-purpose-built storage
		<input type="checkbox"/> dump	<input type="checkbox"/> unknown
3.3. What munitions were stored there?		Quantity/measurement (total estimate, providing any data available)	
Comments (e.g. age, origin, type, and condition of munitions)	<input type="checkbox"/> aircraft	<input type="checkbox"/> armour and artillery	<input type="checkbox"/> quantity (in number) <input type="text"/>
	<input type="checkbox"/> cluster	<input type="checkbox"/> explosives and pyrotechnics	<input type="checkbox"/> weight (in tonnes) <input type="text"/>
	<input type="checkbox"/> mines	<input type="checkbox"/> naval	<input type="checkbox"/> value (indicate currency) <input type="text"/>
	<input type="checkbox"/> SALW <sup>1</sup>	<input type="checkbox"/> unknown	

4. Why? (Why did the UEMS incident occur?) <sup>2</sup>
(e.g. degradation of ammunition; poor storage or poor infrastructure; material being mishandled or dropped; external, environmental events (such as floods or fires); poor security; poor working conditions)

5. What? (What happened as a result of the explosion?)		
5.1 How large was the affected area?	5.2. Who was affected by the explosion?	5.3. What infrastructure was damaged or destroyed in the explosion?
Blast radius (km) <input type="text"/> (distance of pressure expanding outwards from explosion)	Fatalities (total) <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> unknown If yes, no. of facility fatalities <input type="text"/> no. of civilian, non-staff fatalities <input type="text"/>	Type of infrastructure damaged (selecting all that apply) <input type="checkbox"/> schools <input type="checkbox"/> housing <input type="checkbox"/> health services <input type="checkbox"/> transport hub <input type="checkbox"/> other, specify:
Fragmentation radius (km) <input type="text"/> (distance contaminated by munitions, explosives, weapons, and debris, posing a continuing risk)	Injuries (total) <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> unknown If yes, no. of facility staff injuries <input type="text"/> no. of civilian, non-staff injuries <input type="text"/>	Total cost of damages (indicate currency) <input type="text"/>
Comments		

5.4. What are the other consequences of a UEMS?		
Government response <input type="checkbox"/> safety investigation <input type="checkbox"/> legal investigation	Compensation <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> n/a <sup>3</sup> If yes, how many families received compensation? <input type="text"/>	Total cost of compensation (indicate currency) <input type="text"/>
Political impact (e.g. senior officials being reprimanded, demoted, convicted, or jailed)	Other impacts (e.g. environmental, economic, social, or health)	

6. How? (How did the state and international community respond?)			Reporting person, contact details	
Was an emergency-plan response implemented? <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> n/a	Prior presence of EOD <sup>4</sup> expertise on-site? <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> unknown	Relocation of displaced people <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> n/a	Name <input type="text"/>	
Evacuated people <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> n/a If yes, how many? <input type="text"/>	If yes, was displacement <input type="checkbox"/> temporary or <input type="checkbox"/> permanent?	UXO removal <input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> n/a Details (e.g. quantity or weight in tonnes) <input type="text"/>	Institution <input type="text"/>	
Comments (e.g. names of actors assisting, including local, national, or international)			Mailing address <input type="text"/>	
			Phone <input type="text"/>	
			Email <input type="text"/>	



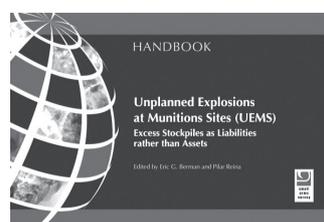
# UEMS: classification of causes

Root cause	Primary cause	Sub-classification of primary causes*	IATG reference code for primary causes**
1. lack of surveillance leading to ammunition deterioration	1.1. auto-initiation (auto-catalysation)		n/a
	1.2. mechanical deterioration	1.2.1. sensitization, typically due to corrosion	7A, 8A
		1.2.2. exudation (e.g. white phosphorus and nitro-based chemicals)	8A, 9A, 9B
		1.2.3. compatibility problems between chemical compounds	7A
	1.3. chemical deterioration	1.3.1. formation of volatile compounds (e.g. copper azide)	8A, 9A, 9B
		1.3.2. depletion of propellant stabilizer	7A
		1.3.3. component ageing (metallurgical)	n/a
		1.3.4. component ageing (electronics)	8A, 9A, 9B
1.4. suspected		8A, 9A, 9B	
2. inappropriate storage systems and infrastructure	2.1. falling objects	2.1.1. weak internal storage infrastructure	n/a
		2.1.2. unsafe ammunition stacking	2M, 2P
	2.2. internal fire	2.2.1. electrical fault	n/a
		2.2.2. incompatible structural material	n/a
		2.2.3. hot surfaces	n/a
	2.3. suspected		n/a
3. handling errors and inappropriate working practices	3.1. mechanical damage (caused by shock initiation)	3.1.1. rough handling (including transporting within depot)	2A, 2B, 2C, 2D, 2M, 2P
		3.1.2. munitions being dropped	2A, 2C, 2M, 2P
		3.1.3. vibration	2A, 2B, 9F
	3.2. inappropriate work practices	3.2.1. unauthorized activities and items (e.g. smoking)	n/a
		3.2.2. work involving the use of heat (e.g. welding)	n/a
		3.2.3. storage of incompatible materials	n/a
		3.2.4. horseplay (foolish and irresponsible behaviour)	n/a
	3.3. tampering	3.3.1. tampering (deliberate)	4A-4D, 4G, 4H
		3.3.2. tampering (accidental)	4E, 4F
	3.4. during demilitarization/explosive ordnance disposal (EOD)	3.4.1. inadvertent initiation of UXO	n/a
		3.4.2. inappropriate disposal	n/a
3.5. suspected		n/a	
4. failure to take into account external, environmental influences and events	4.1. extreme weather	4.1.1. lightning	9A
		4.1.2. extreme climatic heat	9A
		4.1.3. extreme climatic humidity	9A
		4.1.4. extreme fluctuations (e.g. of humidity or temperature, such as freezing and thawing)	9A
	4.2. external fire	4.2.1. vegetation fire	n/a
		4.2.2. vehicle fire	n/a
		4.2.3. building fire	n/a
	4.3. other		
	4.4. suspected		n/a
5. poor security	5.1. criminal/deliberate act	5.1.1. deliberate explosion	n/a
		5.1.2. deliberate fire	n/a
		5.1.3. during theft (e.g. illegal salvaging)	n/a
		5.1.4. failure to withstand external attack (excluding aerial bombing)	n/a
	5.2. suspected		n/a
6. cause currently undetermined or unrecorded			n/a

\* Primary sub-causes are based on 'Surveillance and in-service proof' (UNODA, 2011, para. 7.20; see also NATO, 2010). \*\* These codes are developed from 'Example cause and closure codes' (UNODA, 2011, Annex D, para. 11.20).



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Extract from the publication

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