

Module 4



Module 4: Integrated practical exercises and knowledge evaluation

Module 4 at a Glance

Aim

The aim of this module is to apply the concepts learned in previous lessons through integrated practical exercises and knowledge assessments. This allows the participant to:

- Compile an explosive safety case to qualify an ammunition storage license for an existing UN compound or for a temporary storage area
- Analyse the explosive hazards on a site when taking over a T/PCC compound
- Analyse the ammunition holdings and condition of existing ammunition stocks
- Analyse the controls required to mitigate the explosive risk
- Analyse all safeguarding requirements for the safe storage of a UN T/PCC contingents' ammunition
- Evaluate the internal and external quantity distances relevant to an existing UN compound
- Compile a suitable explosive risk assessment for ammunition management in temporary storage on a UN peacekeeping operation
- Analyse a proposed plan for a field storage area for suitability.
- Justify a selected alternative for siting an ammunition temporary store.

Overview

Module 4 provides participants with opportunities to apply previously learned concepts through practical exercises. Additionally, it includes the final assessment, which evaluates participants' knowledge across all modules of the STM.

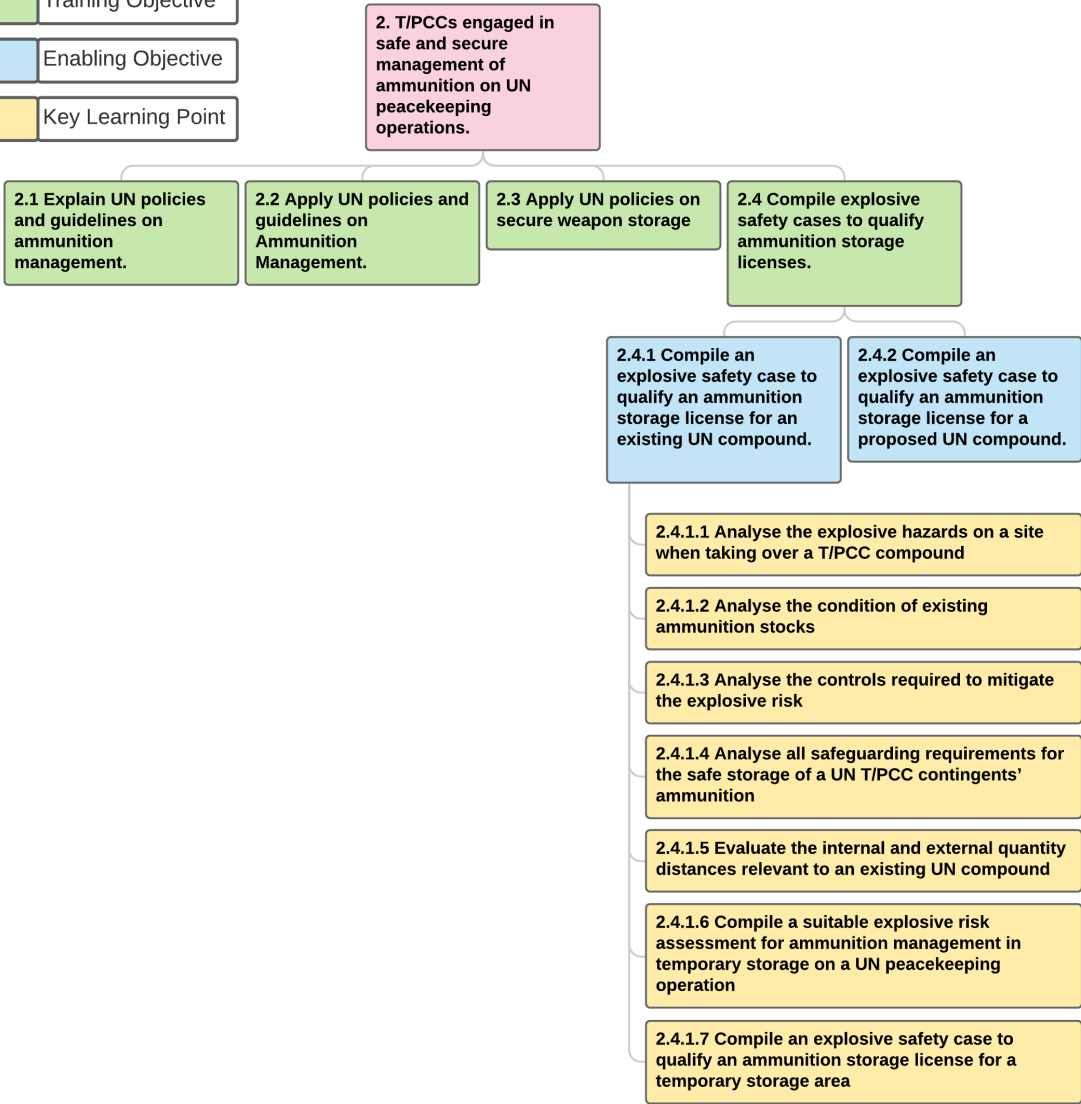
Lesson 4.1



Lesson 4.1: STX ERA & Camp Takeover

Weapons and Ammunition Management in UN Peace Operations In-person course Lesson 16

- Course Objective
- Training Objective
- Enabling Objective
- Key Learning Point



Section 1. Lesson Specification**Course Details:**

Course Title:	Weapons and Ammunition Management in UN Peace Operations In-person training
Course Objective	2. T/PCCs engaged in safe and secure management of ammunition on UN peacekeeping operations.
Training Objective(s):	2.1 Explain UN policies and guidelines on ammunition management. 2.2 Apply UN policies and guidelines on Ammunition Management. 2.3 Apply UN policies on secure weapon storage 2.4 Compile explosive safety cases to qualify ammunition storage licenses

Lesson Details:

Lesson Number and Title:	L16. STX ERA & Camp Takeover
Type of Lesson / Session:	In-person, Situation Training Exercise (STX)
Duration:	5 hours

Enabling Objectives, Key Learning Points & Training Outcomes:

Enabling Objectives:	Key learning Points:
2.4.1 Compile an explosive safety case to qualify an ammunition storage license for an existing UN compound.	2.4.1.1 Analyse the explosive hazards on a site when taking over a T/PCC compound 2.4.1.2 Analyse the condition of existing ammunition stocks 2.4.1.3 Analyse the controls required to mitigate the explosive risk 2.4.1.4 Analyse all safeguarding requirements for the safe storage of a UN T/PCC contingents' ammunition 2.4.1.5 Evaluate the internal and external quantity distances relevant to an existing UN compound 2.4.1.6 Compile a suitable explosive risk assessment for ammunition management in temporary storage on a UN peacekeeping operation

	2.4.1.7 Compile an explosive safety case to qualify an ammunition storage license for a temporary storage area
Performance Statement:	<i>By the end of the lessons the participants will...</i> Compile an explosive safety case to qualify an ammunition storage license for an existing UN compound.
Assessment Criteria:	There is no final assessment for this exercise, however, Instructors will use informal class discussion, questioning of participants and review the work by the participants to enable a positive feedback loop to be established to enhance the effectiveness of the learning.

Resource requirements:

Instructor to participant ratio:	1:6 in syndicates. Maximum class size 15.
Interpreters:	1 per instructor
Training Facilities & Equipment:	4 Syndicate Rooms
Instructional tools & materials	Additional resources for instructor: <ul style="list-style-type: none"> • "WAMUNPOC L16 Facilitator Exercise Briefing Material" (STX_Narrative_Ammunition Relocation Exercise_) • UN Infantry Battalion Handbook • NATO military unit symbology
Participant Resources:	The following need to be printed and provided to participants: <ul style="list-style-type: none"> • Slide 5 • Slide 6 • Slide 7 • Slide 8 • Slide 9 • Slide 11 • 'WAMUNPOC L16 Exercise' • AMAT CARANA Scenario • 'WAMUNPOC L17 Annex A to CPX Participant Handout ' (see lesson 17 CPX folder. This document is a general narrative that crosses both exercises)

Training Safety Points:	Trainer is to make participants aware of course risk assessment in relation to the specific training environment. An example of Health and Safety checklist for classrooms is available here for reference here: Health and safety checklist for classrooms (hse.gov.uk)
Key Reference Documents:	<ul style="list-style-type: none"> • UN Manual on Ammunition Management • UN Weapons and Ammunition Management Policy (WAM) • International Ammunition Technical Guidelines (IATG)

SECTION 2: LESSON PLAN

Executive summary:

By the end of this exercise the participants will have compiled an explosive safety case to qualify an ammunition storage license for an existing UN compound. This will involve them analysing the explosive hazards on a site being taken by a new T/PCC contingent, including the condition of the existing ammunition stocks. They will analyse the controls required to mitigate the explosive risk and the safeguarding requirements for the safe storage of the new contingents' ammunition, including evaluating the internal and external quantity distances and compiling a suitable Explosive Risk Assessment.

Setup:

Phase 1 and 3 will be delivered to the class as a collective.

Phase 2 will be delivered with participants in syndicates (6-8 participants) working to a dedicated instructor.

Conduct:

Phase 1. Introduction (Time allocation - 20 mins)

- Introduce task, distribute printed resources
- Highlight the deliverables on 'WAMUNPOC L16 Exercise' and the main points on the maps provided (see slides and slide notes for details)

- Explain timings – total time, when backbriefing will begin, breaks.
- Give participants opportunity to ask questions about the task
- Break class into groups of 6 participants. Attempts should be made to split nationalities between groups.

Phase 2. Development (Time allocation – 235 mins)

Stage 1 (Time allocation 10 mins) – group setup

- Ask participants to organise themselves into a team that looks into the different areas required under this scenario e.g. Review of new Camp location, current siting of FSA within the camp, internal layout of the FSA, Review of contingent Ammunition Stocks, development of the Explosive Risk Assessment and Explosive license.
- Concurrent activity should be encouraged.
- Ask participants to organise their time so they will be ready to backbrief by the given deadline.
- Remind participants of additional resources participants can use during the exercise (eg. Lesson handouts, CARANA reference documents, previous course sessions and the UN Manual on Ammunition Management.)

Stage 2 (Time allocation 195 mins) – group work

- Participants to work in their groups to complete the exercise.
- Instructor to circulate between groups to support their work.
- Encourage participants to refer back to resources provided
- Give regular time reminders.

Stage 3 (Time allocation 30 mins – adjust according to number of groups) – backbriefs

- Participants to back brief to their syndicate instructors on the deliverables
- Syndicate group to be given 20 minutes for the backbrief, and 10 minutes for questions.

Phase 3. Consolidation (Time allocation 15 mins)

- Review Enabling objective and Key Learning Points (see Section 1), drawing out any common themes in the participant backbriefs.
- Look ahead to the next day of the course:
 - CPX Ammunition Management and Storage Exercise

Slide 1

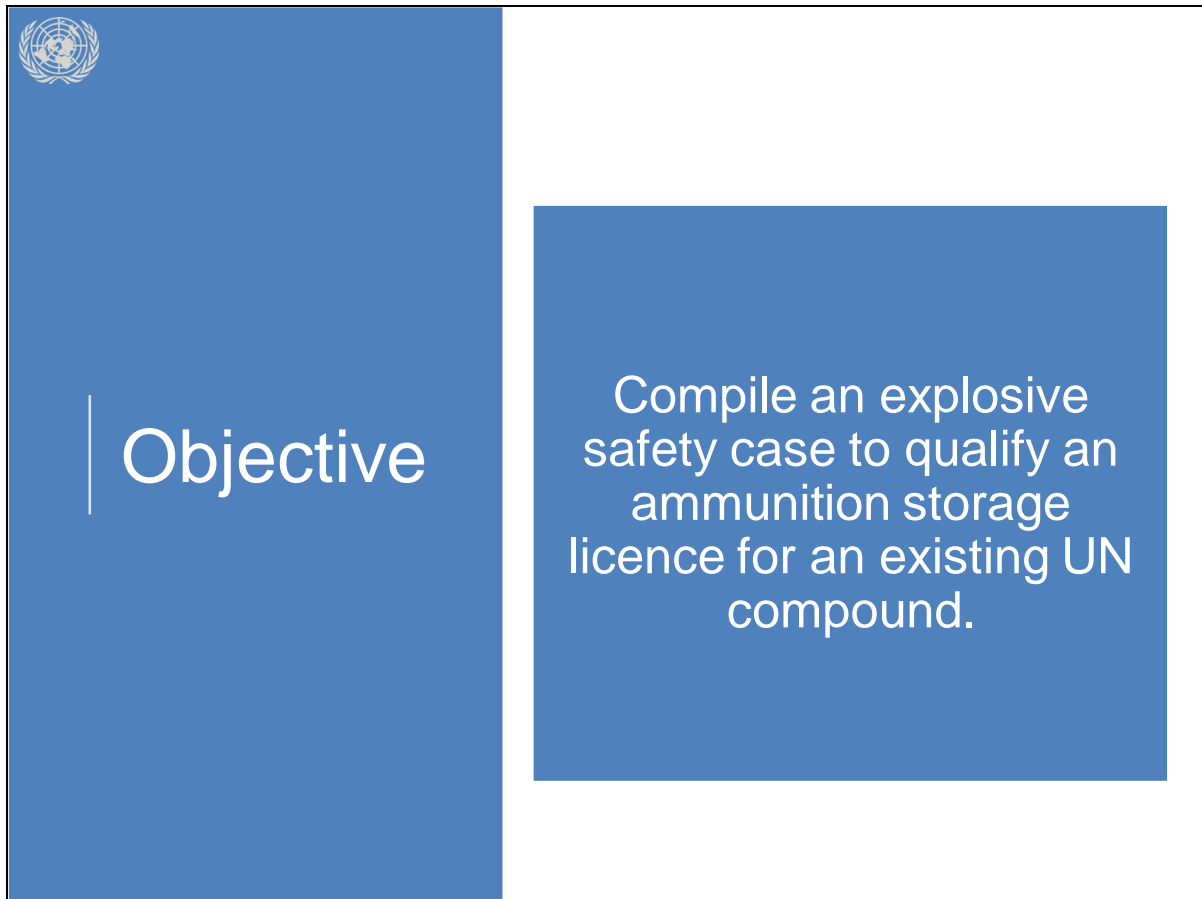


Key Reference Documents:

- UN Manual on Ammunition Management
- UN Weapons and Ammunition Management Policy (WAM)
- International Ammunition Technical Guidelines (IATG)

All photographs in this lesson are © United Nations unless otherwise stated.

Slide 2



The slide features a blue vertical bar on the left side containing the United Nations logo at the top and the word "Objective" in white text. To the right of this bar is a white rectangular area containing a blue square with white text that reads: "Compile an explosive safety case to qualify an ammunition storage licence for an existing UN compound."


Main idea/objective for slide:

Phase 1. Introduction - Introduce the objectives of the lesson.

(Enabling Objective: 2.4.1 Compile an explosive safety case to qualify an ammunition storage licence for an existing UN compound.)

What the instructor should cover (in addition to slide content)

By the end of this training session the participant will Compile an explosive safety case to qualify an ammunition storage licence for an existing UN compound.



Lesson overview

- Analyse the explosive hazards on a site being taken by a new T/PCC contingent, including the condition of the existing ammunition stocks.
- Analyse the controls required to mitigate the explosive risk
- Analyse the safeguarding requirements for the safe storage of the new contingents' ammunition
- Evaluate the internal and external quantity distances and compile a suitable Explosive Risk Assessment.
- Compile an explosive safety case to qualify an ammunition storage licence for an existing UN compound.

Main idea/objective for slide:
Introduce the Key Learning Points

Key Learning Points


- 2.4.1.1 Analyse the explosive hazards on a site when taking over a T/PCC compound
- 2.4.1.2 Analyse the condition of existing ammunition stocks
- 2.4.1.3 Analyse the controls required to mitigate the explosive risk
- 2.4.1.4 Analyse all safeguarding requirements for the safe storage of a UN T/PCC contingents' ammunition
- 2.4.1.5 Evaluate the internal and external quantity distances relevant to an existing UN compound
- 2.4.1.6 Compile a suitable explosive risk assessment for ammunition management in temporary storage on a UN peacekeeping operation

2.4.1.7 Compile an explosive safety case to qualify an ammunition storage licence for a temporary storage area

Slide 4



Phase 1. Introduction (Time allocation - 20 min)



Task Introduction

Following an escalation of fighting in the Sector 3 area there has been a major increase of IDP from Rimoso towards Xalkaa. As an immediate response the Force Commander tasked Sector 3 Commander to reinforce the UN presence in Xalkaa. To do this, a mechanised platoon was co-located at the company level UN post on the northern edge of Xalkaa.

As the situation has continued to deteriorate the UN Country team have agreed that the UNHCR will increase its presence and create a Humanitarian Hub for other UN Agencies and NGOs to operate from. The Force Commander has agreed that this site will be located next to the mission base.


Main idea/objective for slide:

Introduce task

References/further reading

- "WAMUNPOC L16 Facilitator Exercise Briefing Material" (STX_Narrative_Ammunition Relocation Exercise_)

Slide 6



Task Introduction

The force will not provide access control or perimeter security for the Humanitarian Hub but they will respond in the event of security issues. The SRSG has requested the Force Commander to evaluate the force posture in the area as it is expected that Xalkaa will now become a major centre of gravity for the UN and international efforts.

The Force Commander has decided to assign the newly deployed Mechanised Infantry Battalion of Sector 3 with the task.

Main idea/objective for slide:**Introduce task**References/further reading

- "WAMUNPOC L16 Facilitator Exercise Briefing Material" (STX_Narrative_Ammunition Relocation Exercise_)

Slide 7



Main idea/objective for slide:
Introduce STX

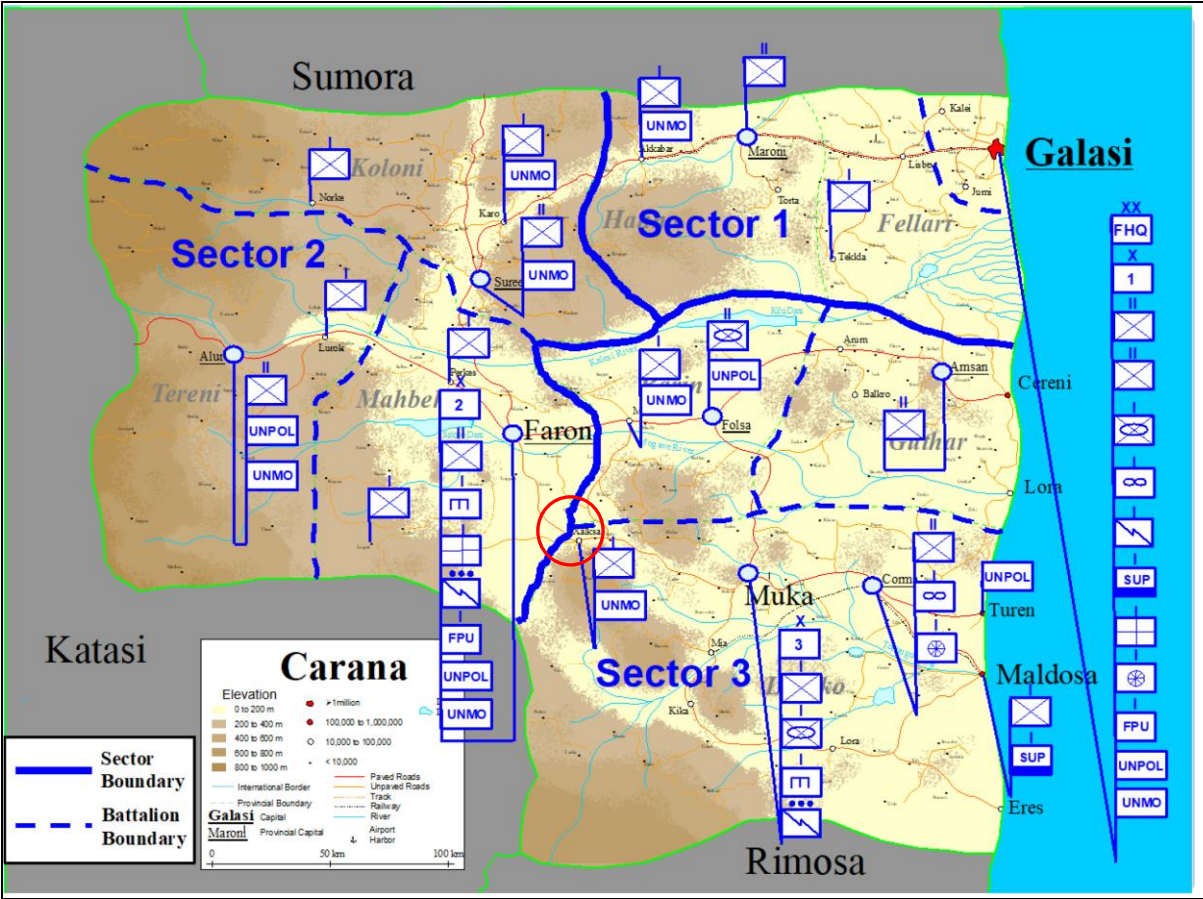
What the instructor should cover (in addition to slide content)

- Break class into groups of 6 participants. Attempts should be made to split nationalities between groups.
- Distribute participant handouts:
 - Slide 5
 - Slide 6
 - Slide 7
 - Slide 8
 - Slide 9
 - Slide 11
 - 'STX participant Task 1 Handout'

- AMAT CARANA Scenario
- 'WAMUNPOC L17 Annex A to CPX Participant Handout' (see lesson 17 CPX folder. This document is a general narrative that crosses both exercises)
- Highlight the deliverables on 'participant Task 1 Handout'
- Explain timings – total time, when backbriefing will begin, breaks. Syndicate group to be given 20 minutes for the backbrief, and 10 minutes for questions.

References/further reading

- Additional resources for instructor:
 - "WAMUNPOC L16 Facilitator Exercise Briefing Material" (STX_Narrative_Ammunition Relocation Exercise_)
 - UN Infantry Battalion Handbook
 - NATO military unit symbology



Main idea/objective for slide:

Highlight main points on map for task

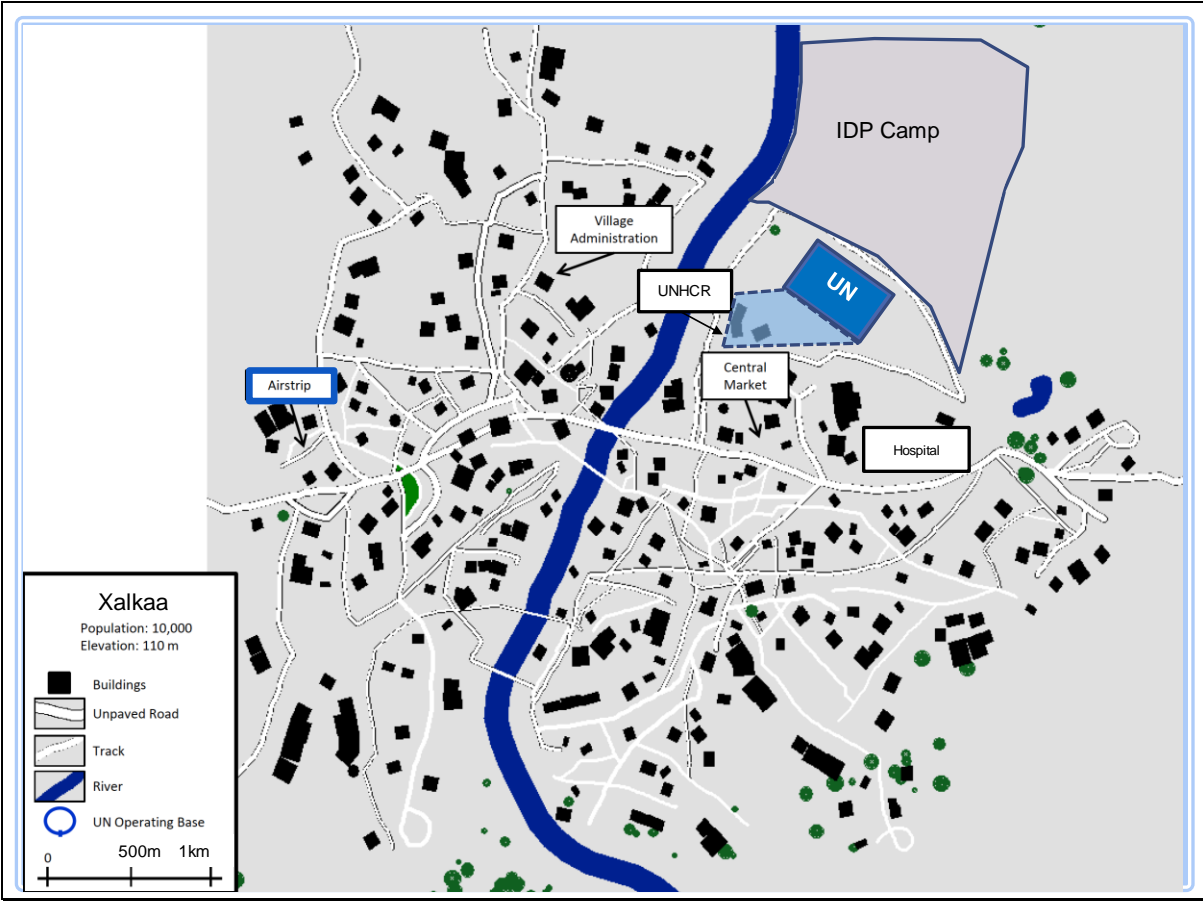
What the instructor should cover (in addition to slide content)

The instructor should cover the general structure of the mission including the locations of the mission HQ, the sector HQs and the various types of units deployed across the country.

They should point out the neighbouring countries and the borders.

They should point out the ports and the relief of the terrain.

Show where Xalkaa is on the map.

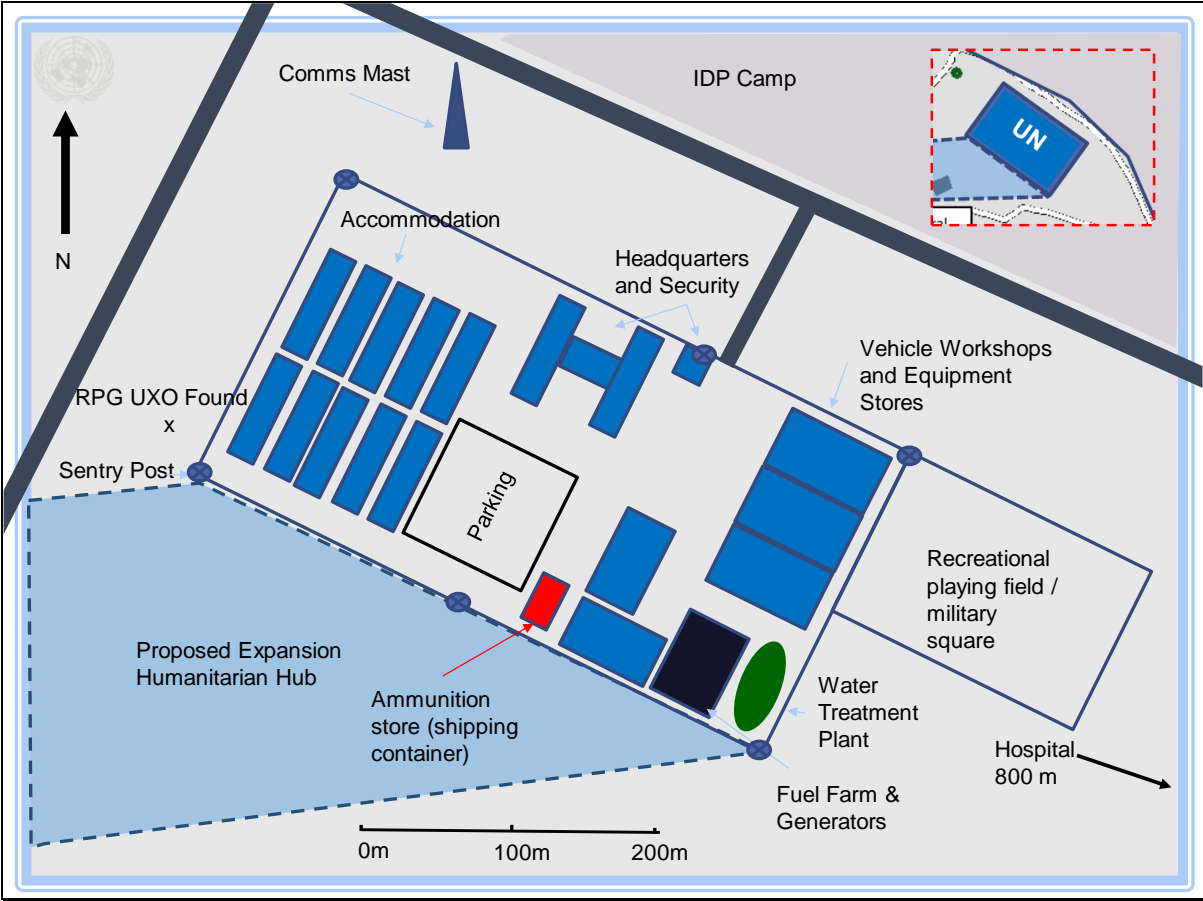


Main idea/objective for slide:

Highlight main points on map for task

What the instructor should cover (in addition to slide content)

The location of the UN camp, the UNHCR site and the airstrip.
Point out the other relevant items from the map including the scale, the river, the IDP camp, the hospital and the market.



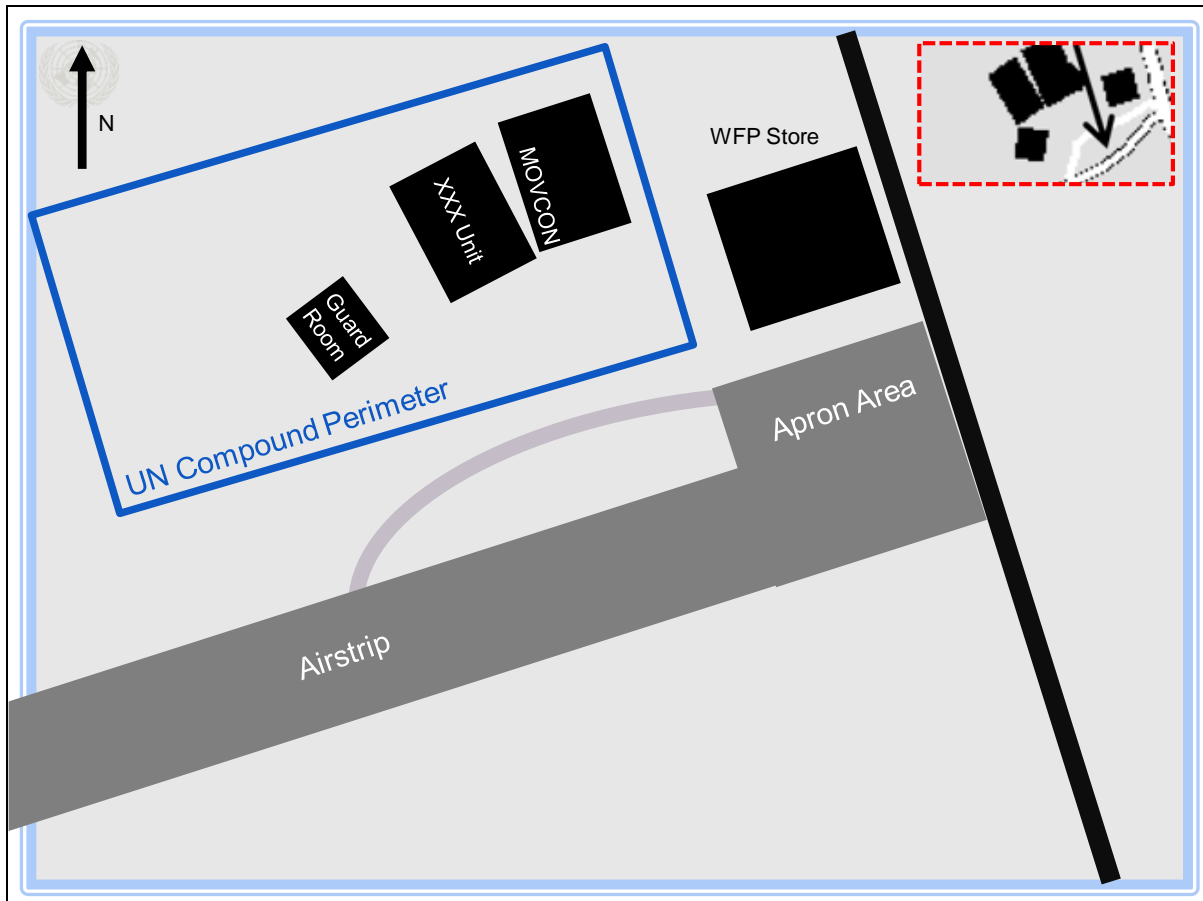
Main idea/objective for slide:

Highlight main points on map for task

What the instructor should cover (in addition to slide content)

Let the participants take some time over the camp layout to familiarise themselves with the key locations. Make yourself available for any questions.

Slide 11



Main idea/objective for slide:

Highlight main points on map for task

What the instructor should cover (in addition to slide content)

Point out where this map area is located on the main XALKAA map so that the participants are correctly orientated.

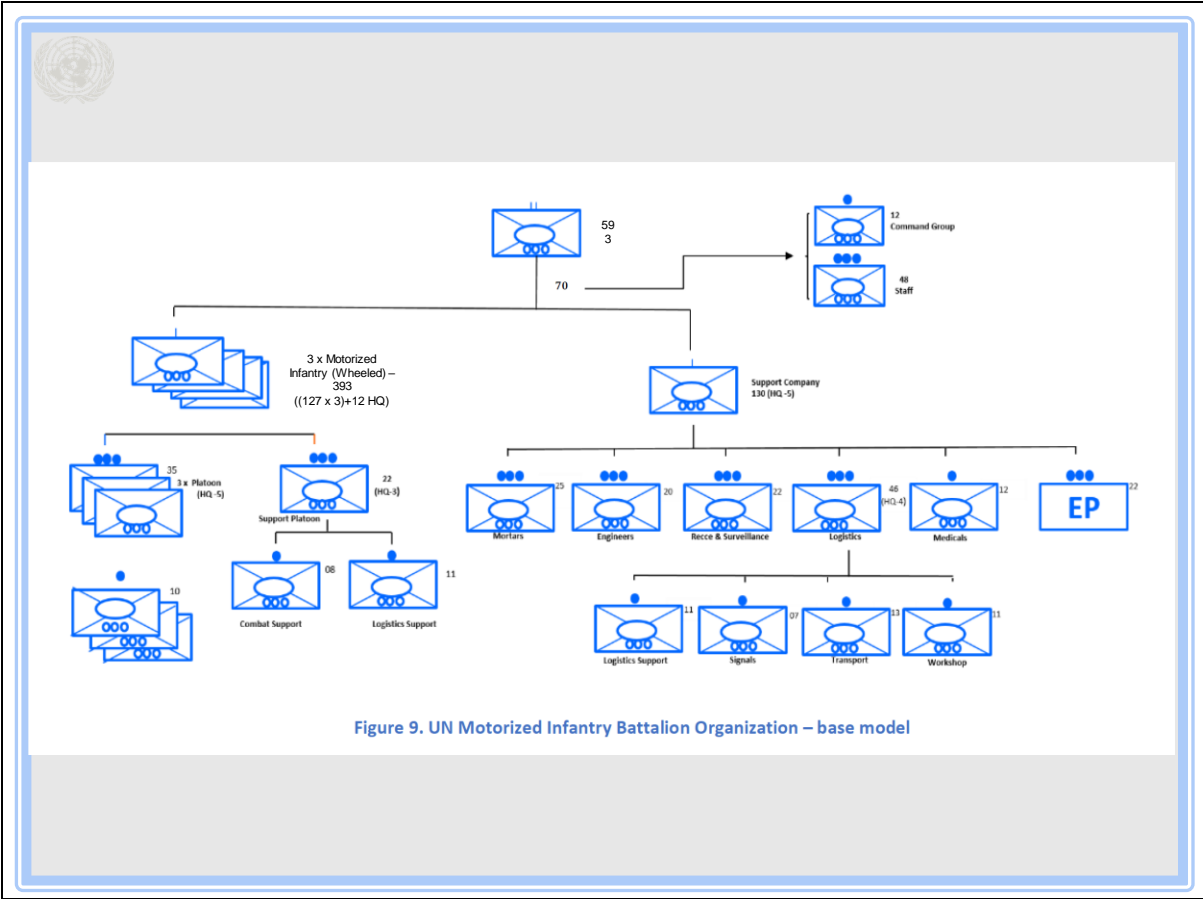


Figure 9. UN Motorized Infantry Battalion Organization – base model

Main idea/objective for slide:

The slide shows the organogram of a standard UN Motorised Infantry Battalion.

What the instructor should cover (in addition to slide content)

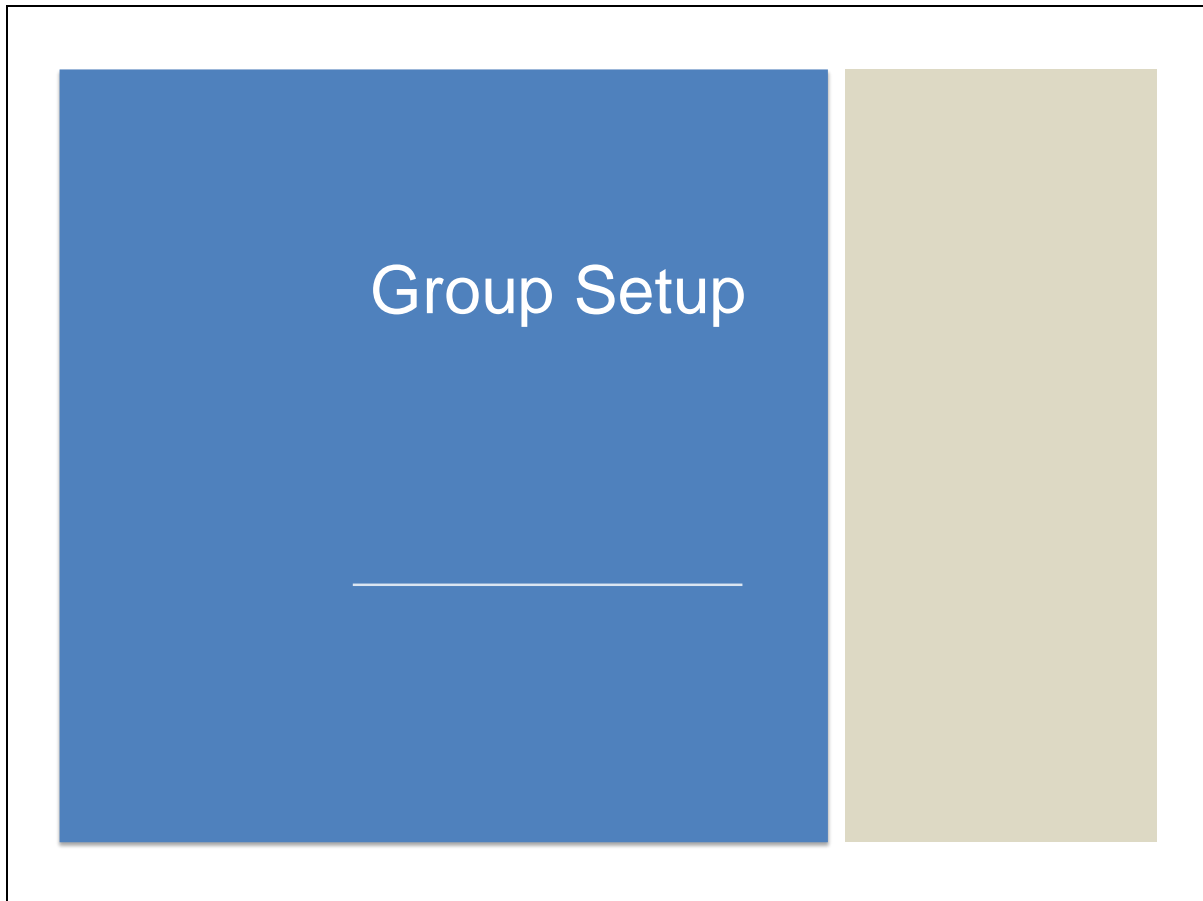
This organogram will show participants the chain of command and the structural layout of the battalion.

It will help the participants to identify specific requirements in the STX.

Should participants require more information on this they can reference the UN Infantry Battalion Handbook.

Where participants are not up to date on the military unit symbols point them toward the NATO military symbology.

Slide 13



Main idea/objective for slide:

Phase 2. Development (Time allocation - 235 min):

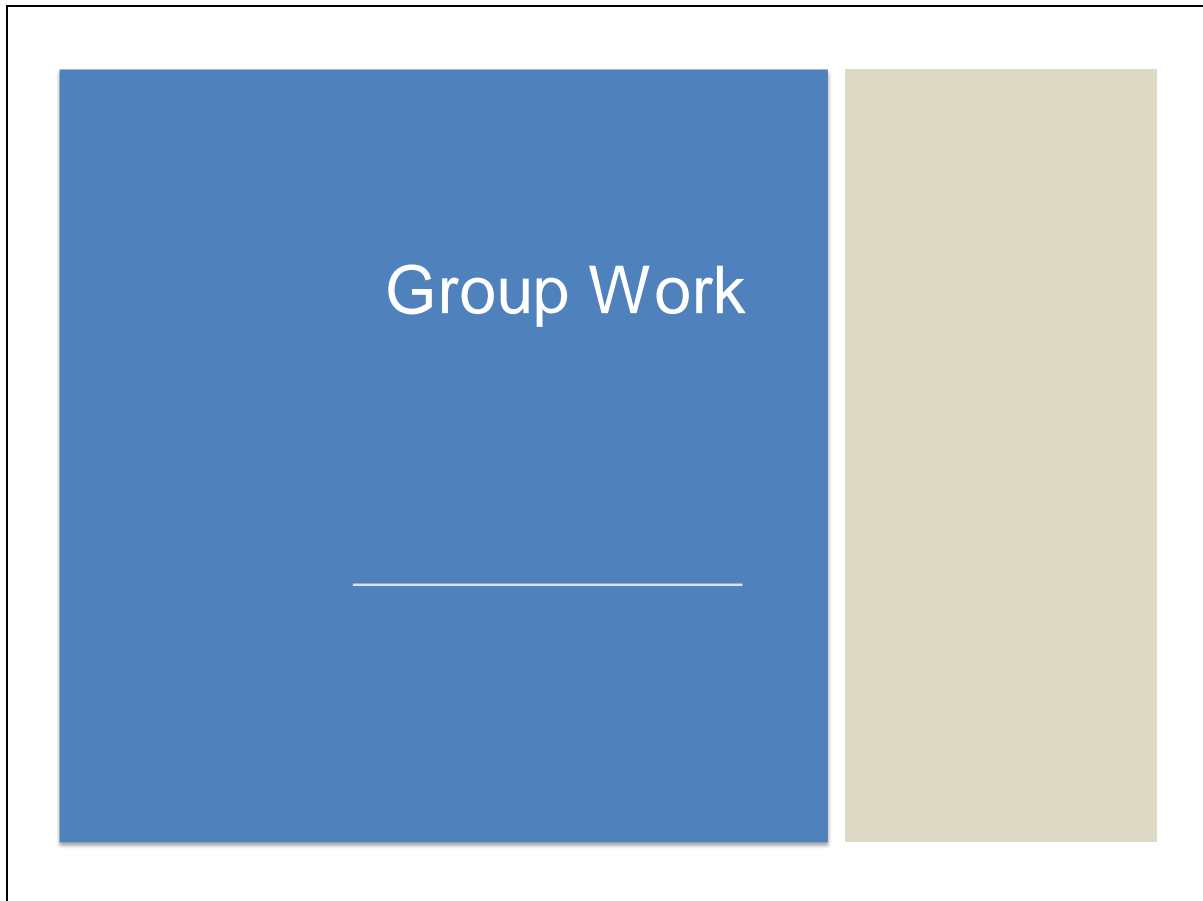
Stage 1 (Time allocation 10 mins) – Group Setup

What the instructor should cover (in addition to slide content)

- Ask participants to organise themselves into a team that looks into the different areas required under this scenario
- (e.g. Review of new Camp location, current siting of FSA within the camp, internal layout of the FSA, Review of contingent Ammunition Stocks, development of the Explosive Risk Assessment and Explosive licence)
- Concurrent activity should be encouraged.
- Ask participants to organise their time so they will be ready to backbrief by the given deadline.

- Remind participants of additional resources participants can use during the exercise (eg. Lesson handouts, CARANA reference documents, previous course sessions and the UN Manual on Ammunition Management.)

Slide 14



Main idea/objective for slide:

Stage 2 (Time allocation 195 mins) – Group Work

participants to work in their groups to complete the exercise.

What the instructor should cover (in addition to slide content)

- Instructor to circulate between groups to support their work.
- Encourage participants to refer back to Lesson handout(s), CARANA reference documents, previous course sessions and the UN Manual on Ammunition Management.
- Give regular time reminders.

Slide 15




Main idea/objective for slide:

Stage 3 (Time allocation 30 mins) – participant Back Briefs

What the instructor should cover (in addition to slide content)

- Participants to back brief to their syndicate instructors on the deliverables
- Syndicate group to be given 20 minutes for the backbrief, and 10 minutes for questions.



Lesson overview

- Analyse the explosive hazards on a site being taken by a new T/PCC contingent, including the condition of the existing ammunition stocks.
- Analyse the controls required to mitigate the explosive risk
- Analyse the safeguarding requirements for the safe storage of the new contingents' ammunition
- Evaluate the internal and external quantity distances and compile a suitable Explosive Risk Assessment.
- Compile an explosive safety case to qualify an ammunition storage licence for an existing UN compound.

Summary

In this lesson, participants engaged in compiling an explosive safety case to qualify for an ammunition storage license for an existing UN compound. Key learning points included:

- Participants analyzed the explosive hazards present on a site being taken over by a new T/PCC contingent, including assessing the condition of existing ammunition stocks to identify potential risks.
- Engage in discussions about the necessary controls and measures required to mitigate the risks associated with explosive hazards, ensuring the safety and security of the storage facility and personnel.
- Participants evaluated the safeguarding requirements necessary for the safe storage of the new contingent's ammunition, considering factors such as storage conditions, housing, and safety protocols.
- Participants assessed internal and external quantity distances to determine safe storage parameters and compiled a comprehensive Explosive Risk Assessment to identify and address potential risks.
- Practice compiling an explosive safety case to qualify for an ammunition storage license for an existing UN compound, demonstrating proficiency in documenting and justifying safety measures for regulatory compliance.



Main idea/objective for slide:

Look ahead to the next lesson of the course:

CPX Ammunition Management and Storage Exercise

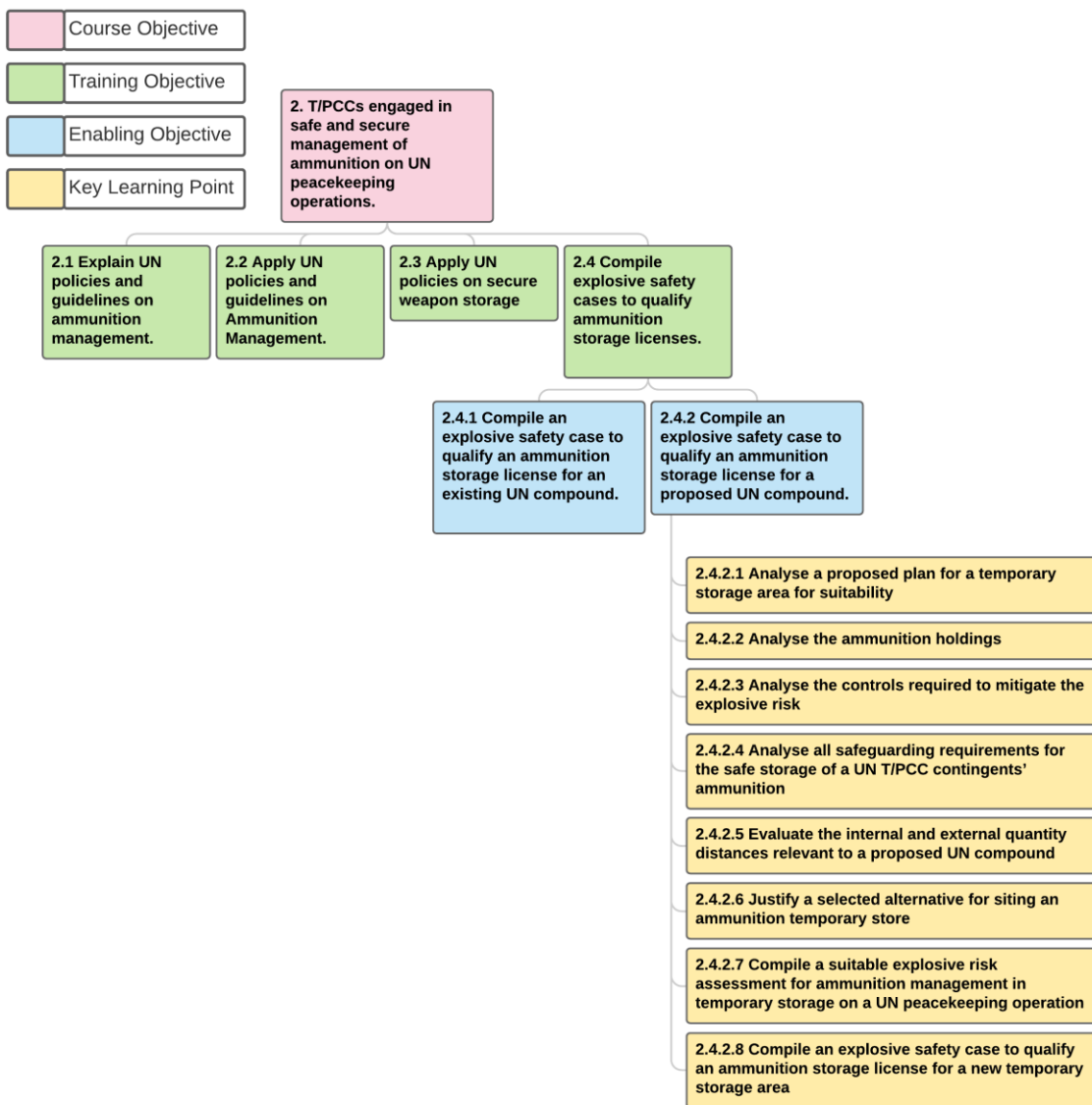
Lesson 4.2



Lesson 4.2: CPX Ammunition Management and Storage

Weapons and Ammunition Management in UN Peace Operations

In-person course
Lesson 17



Section 1. Lesson Specification**Course Details:**

Course Title:	Weapons and Ammunition Management in UN Peace Operations In-person training
Course Objective	2. T/PCCs engaged in safe and secure management of ammunition on UN peacekeeping operations.
Training Objective(s):	2.1 Explain UN policies and guidelines on ammunition management. 2.2 Apply UN policies and guidelines on Ammunition Management. 2.3 Apply UN policies on secure weapon storage 2.4 Compile explosive safety cases to qualify ammunition storage licenses

Lesson Details:

Lesson Number and Title:	L17. CPX Ammunition Management and Storage
Type of Lesson / Session:	In-person, Exercise
Duration:	5 hours

Enabling Objectives, Key Learning Points & Training Outcomes:

Enabling Objectives:	Key learning Points:
2.4.2 Compile an explosive safety case to qualify an ammunition storage license for a proposed UN compound.	2.4.2.1 Analyse a proposed plan for a field storage area for suitability. 2.4.2.2 Analyse the ammunition holdings. 2.4.2.3 Analyse the controls required to mitigate the explosive risk. 2.4.2.4 Analyse all safeguarding requirements for the safe storage of a UN T/PCC contingents' ammunition. 2.4.2.5 Evaluate the internal and external quantity distances relevant to a proposed UN compound. 2.4.2.6 Justify a selected alternative for siting an ammunition temporary store. 2.4.2.7 Compile a suitable explosive risk assessment for ammunition management in temporary storage on a UN peacekeeping operation.

	2.4.2.8 Compile an explosive safety case to qualify an ammunition storage license for a new temporary storage area.
Performance Statement:	<i>By the end of the lessons the participants will...</i> Compile an explosive safety case to qualify an ammunition storage license for a proposed UN compound
Assessment Criteria:	There is no final assessment for this exercise, however, Instructors will use informal class discussion, questioning of participants and review the work by the participants to enable a positive feedback loop to be established to enhance the effectiveness of the learning.

Resource requirements:

Instructor to participant ratio:	1:6 in syndicates. Maximum class size 15.
Interpreters:	1 per instructor
Training Facilities & Equipment:	Classroom
Instructional tools & materials	Additional resources for instructor: <ul style="list-style-type: none"> • Annex A instructor notes • Annex B, Instructor Map (Suggested Solution)
Participant Resources:	<ul style="list-style-type: none"> • Graph paper/model <p>Distribute the following print outs to participants:</p> <ul style="list-style-type: none"> • Annex A participant handout • Annex B & C participant handout • Participant Task 1 Handout • Slides 7-11 <p>NOTE – the instructor map (suggested solution) is in the slide deck (slide 17). Do not provide this to participants</p>
Training Safety Points:	Trainer is to make participants aware of course risk assessment in relation to the specific training environment. An example of Health and Safety checklist for classrooms is available here for reference here: http://www.hse.gov.uk/risk/classroom-checklist.pdf
Key Reference Documents:	<ul style="list-style-type: none"> • UN Manual on Ammunition Management

	<ul style="list-style-type: none">• UN Weapons and Ammunition Management Policy (WAM)• International Ammunition Technical Guidelines (IATG)
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SECTION 2: LESSON PLAN

Executive summary:

This CPX is designed to exercise the participants across the full range of WAM activities required of them on UN peacekeeping operations. It builds on the previous lessons and exercises conducted during both the face-to-face and e-learning courses.

The CPX uses a fictitious special idea based on the UN's CARANA scenario that is appropriate to T/PCC ammunition managers deploying on a peacekeeping mission. It requires the participants to compile an explosive safety case to qualify a licence for a temporary ammunition storage site at a proposed contingent compound. This builds on the STX during which they create a safety case for an existing temporary storage site as part of a camp takeover.

Setup:

Participants will work in syndicates of up to 6-8 participants to complete this CPX each with a dedicated instructor. Maximum number of syndicates is 4.

Conduct:

Phase 1. Introduction (Time allocation - 45 mins)

- See slides for details and instructions
- Introduce task, distribute participant resources
- Highlight the deliverables on 'Participant Task 1 Handout' and key locations on the map
- Explain timings – total time, when backbriefing will begin, breaks;
- Give participants opportunity to ask questions about the task; and
- Break class into groups of 6 participants. Attempts should be made to split nationalities between groups.

Phase 2. Development (Time allocation - 240)

Stage 1 (Time allocation 20 mins) – group setup:

- Ask participants to organise themselves into groups that look into the different areas required under this scenario e.g. Review of selected FOB location, siting of TSA within the camp, internal design Temporary Stack Modules, Temporary Storage Site (TSS) and the design of the TSA, development of the license and risk assessment.
- Concurrent activity should be encouraged;

- Ask participants to organise their time so that they will be ready to backbrief by the given deadline; and
- Introduce additional resources participants can use during the exercise.

Stage 2 (Time allocation 200 mins) – group work:

- Participants to work in their groups to complete the exercise;
- Instructor to circulate between groups to support their work;
- Encourage participants to refer back to 'Participant Task 1 Handout', Annexes, CARANA reference documents, previous course sessions and the UN Manual on Ammunition Management; and
- Give regular time reminders.

Stage 3 (Time allocation 80 mins – adjust according to number of groups) – backbriefs:

- Participants to back brief the instructors on the deliverables;
- Each group to be given 15 minutes for the backbrief, and 5 minutes for questions.
- Display the 'Instructors Suggested Solution' and discuss with participants.

Phase 3. Consolidation (Time allocation 15 mins)

Review Enabling objective and Key Learning Points (see Section 1), drawing out any common themes in the participant backbriefs.

Look ahead to the next (and final) day of the course:

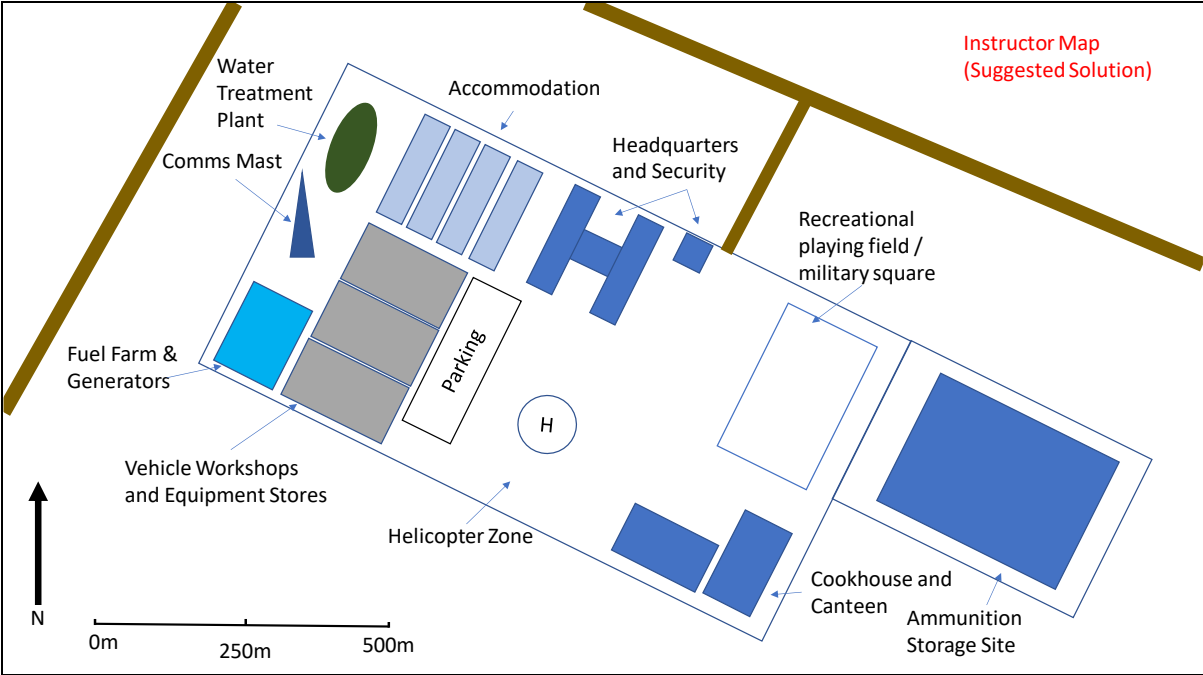
- End of course assessment;
- Course Debrief; and
- Closing Ceremony.

Slide 1

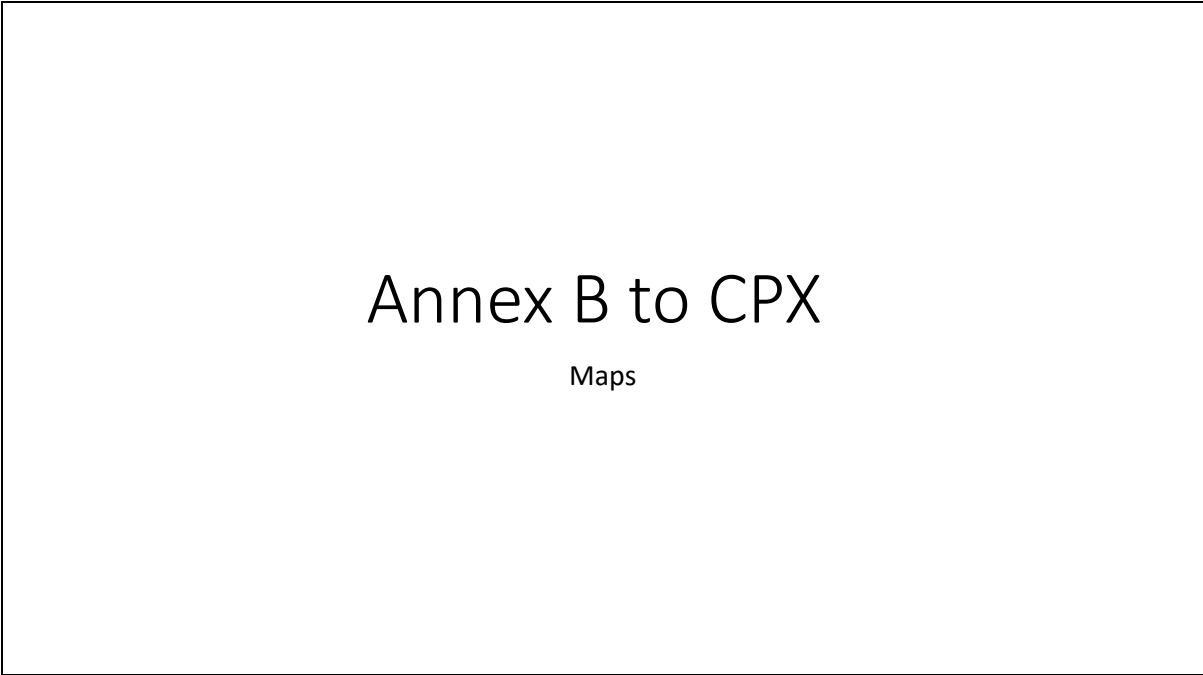
Annex B to CPX

Instructor Map
(Suggested Solution)

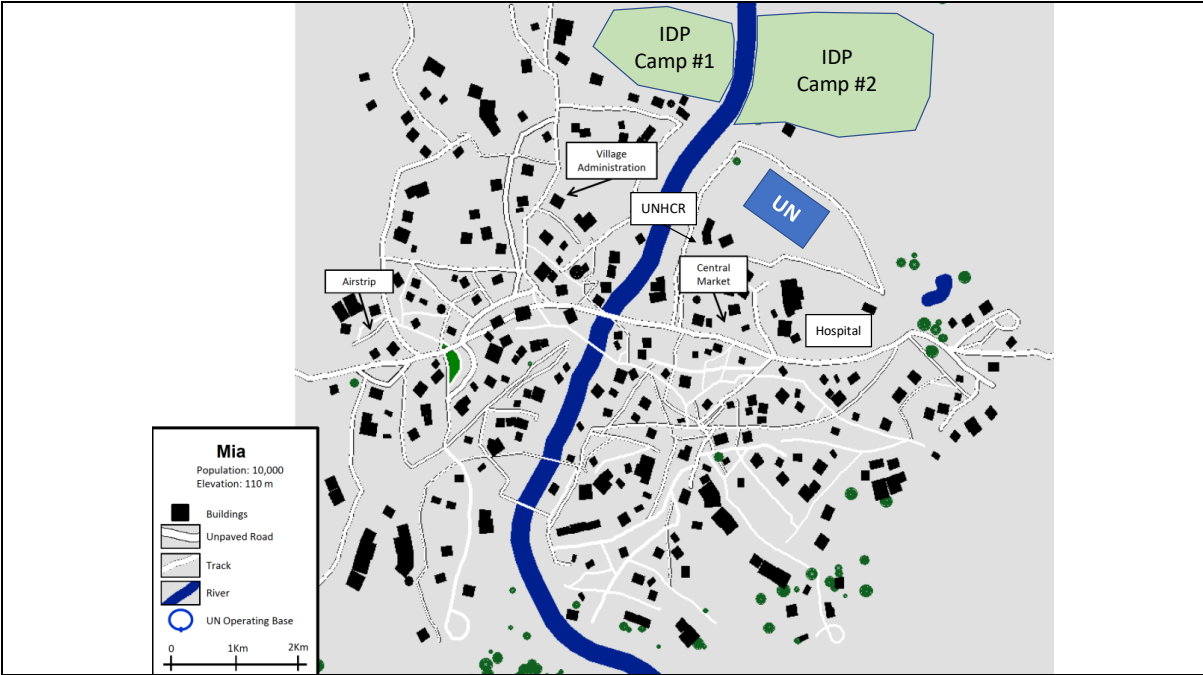
Slide 2



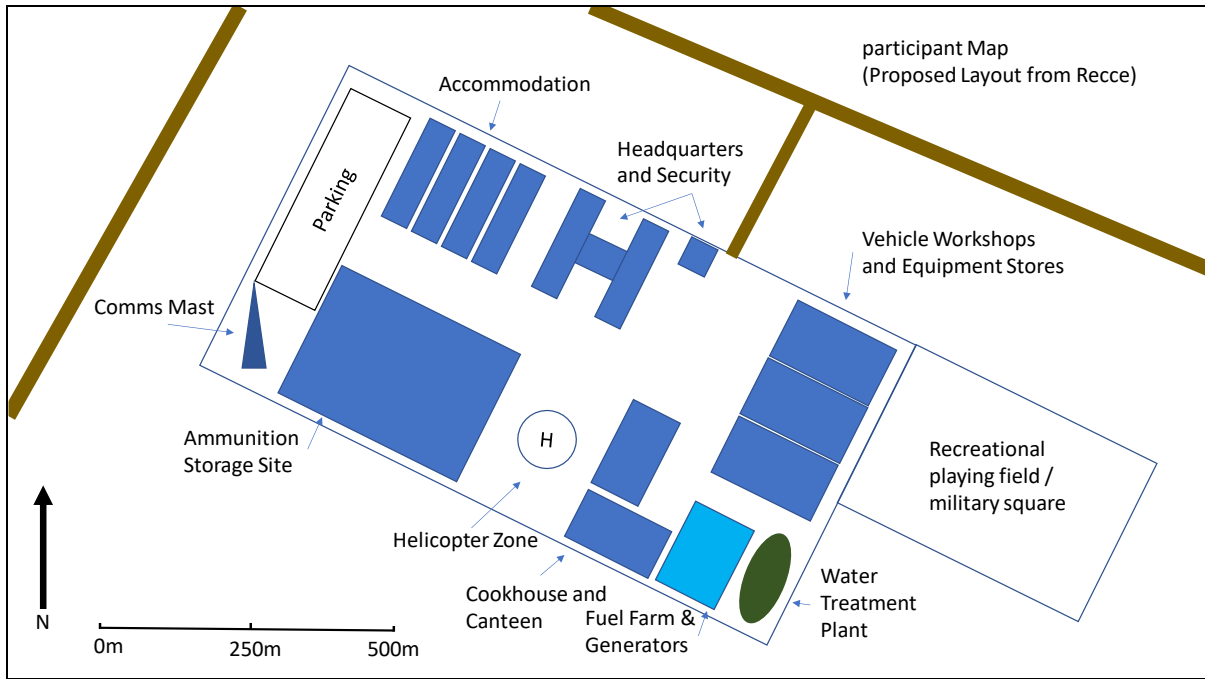
Slide 1



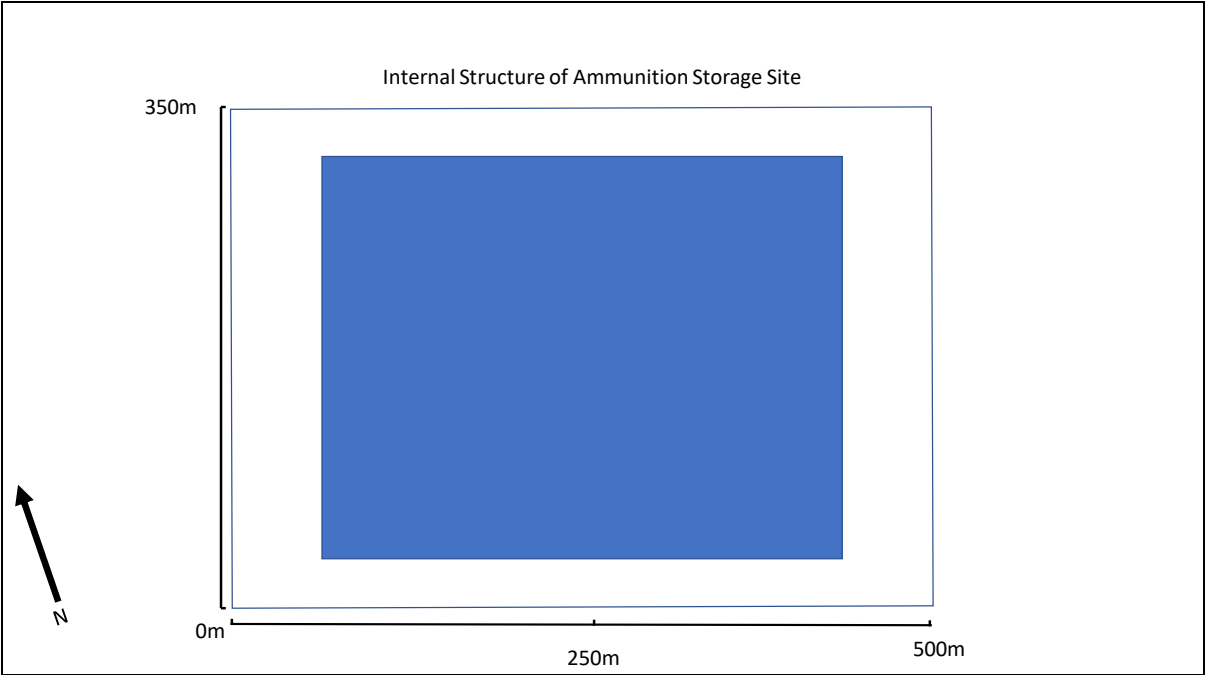
Slide 2



Slide 3



Slide 4



Slide 5

Annex C to CPX

Ammunition Schedule for the Multinational supplementary force of
200+ troops due to deploy to MIA.

Slide 6

Serial	Description	Lot No	Qty Per Box	Total No Boxes	Total Qty	Wt Box Kg	Standard Boxes per Pallet / Unit of Space	Total Weight Kg	L m	B m	H m	C.C m3	Tot CC m3	Neq Rd	Total Neq	Un No	H.C.C
1	AT 4 HEAT	16 BEF 17	4	24	96	45	4	1080	1.06	0.80	0.25	0.21	20.35	0.40	38.40	0181	1.1E
2	Rds 84mm RCL HE 441D	001 BEF 14	6	12	72	35	12	420	0.59	0.42	0.3	0.07	5.35	0.74	53.28	0006	1.1E
3	Rds 84mm RCL HEAT 551	013 BEF 15	6	9	54	41	12	369	0.8	0.43	0.3	0.10	5.57	1.13	61.02	0181	1.1E
4	RDS 84mm HEAT 551	013 BEF 15	6	18	108	41	12	738	0.80	0.43	0.30	0.10	1.86	1.13	122.04	0181	1.1E
5	Rds 40mm x 53 DM111 HE Frag-T	08 L 0034	32	84	2688	19.8	48	1663.2	0.48	0.16	0.26	0.02	1.68	0.02	53.76	0321	1.2E
6	Bomb Mortar 60mm HE Mk61 FZD V9 COMP	8-BSA-15	10	72	720	31.5	18	2268	0.51	0.4	0.19	0.04	2.79	0.3035	218.52	0167	1.1F
7	Bomb Mortar 120mm HE 88	03-16 A	2	140	280	45	8	6300	0.85	0.30	0.18	0.05	6.43	3.82	1069.60	0321	1.2E
8	RDS 12.7mm M/BELT L/R 1APIHC/1BALL/1TF Rds 7.62mm M/Belt 3BALL/1TR/1AP M13	003 D 17	300	168	50400	16	72	4800	0.38	0.24	0.36	0.03	5.52	0.02	856.80	0300	1.4G
9	LINKS	01 FIN 10A	500	160	80000	18	72	2880	0.29	0.16	0.19	0.01	1.33	0.00	240.00	0012	1.4S
10	Rds 5.56mm Ball	00221/F	990	216	213840	15	72	3240	0.31	0.15	0.19	0.01	1.91	0.0017	363.53	0012	1.4S
11	RDS 7.62mm BALL	819 FIB 18	560	56	31360	17	72	952	0.31	0.15	0.19	0.01	0.49	0.0027	84.67	0012	1.4S
12	Rds 7.62mm AP	01 HA 09	500	8	4000	14.25	48	114	0.42	0.36	0.12	0.02	0.15	0.003	12.00	0012	1.4S
13	RDS 7.62mm TRACER	02 HA 09	500	8	4000	14.25	48	114	0.36	0.25	0.22	0.02	0.16	0.003	12.00	0012	1.4S
14	RDS 9mm BALL	ZZ 146-06	1500	1	1500	18	48	18	0.37	0.22	0.34	0.03	0.03	0.0004	0.60	0012	1.4S
15	RDS .308in Win HPS (Sniper)	56-HA-12	600	1	600	18.7	48	18.7	0.5	0.37	0.1	0.02	0.02	0.003	1.80	0012	1.4S
16	Bombs Mortar 120mm Illum	NIR 09-18T	2	40	80	45		1800	0.85	0.30	0.18	0.05	No data	2.61	208.80	0171	1.2G
17	Rds 84mm RCL Illum 545C	BIF 09 012	6	12	72	34	12	408	0.59	0.42	0.30	0.07	No data	0.96	69.12	0171	1.2G
18	Grenade 66mm Smk Screening IR	0102 AA 012	4	100	400	7.8	48	780	0.30	0.16	0.18	0.01	No data	0.05902	23.61	0303	1.4G
19	Grenades 66mm Smk Screening V102 LR	009 AA 2-16	32	24	768	19.35	48	464.4	0.62	0.35	0.20	0.04	No data	0.22	168.96	0303	1.4G
20	Rds 40mm Beanbag	002/2012 SB	32	500	16000	23.00	48	11500	0.62	0.35	0.20	0.04	No data	0.24	0.01	0012	1.4S

Slide 7

Serial	Description	Lot No	Qty Per Box	Total No Boxes	Total Qty	Wt Box Kg	Standard Boxes per Pallet / Unit of Space	Total Weight Kg	L m	B m	H m	C.C m3	Tot CC m3	Neq Rd	Total Neq	Un No	H.C.C
21	Charge SX4 Sheets	O1-2017	20	1	20	23	72	23	0.3	0.3	0.4	0.04	No data	0.315	6.40	0084	1.1D
22	Cortex Metres	O1-2019-A	50	2	100	9.5	72	19	0.31	0.15	0.19	0.01	No data	0.84	84.00	0065	1.1D
23	Ctgs Injector L2A1	09/12-009	50	10	500		72	0	0.31	0.15	0.19	0.01	No data	0.00161	0.81	0276	1.4C
24	Detonators Demolition L1A2	10/12-009	50	2	100	8	72	16	0.3	0.16	0.19	0.01	No data	0.00115	0.12	0030	1.1B
25	Detonators Demolition L1A2	08/14-005	24	4	96	7.2	72	28.8	0.3	0.16	0.19	0.01		0.00115	0.11	0456	1.4S
26	Detonators Demolition L2A2	02/12-008	50	2	100	9	72	18	0.3	0.16	0.19	0.01	No data	0.00115	0.12	0030	1.1B
27	Igniters Safety Fuze Electric	01/12-009	50	4	200	5	72	20	0.3	0.16	0.19	0.01	No data	0.00115	0.23	0131	1.4S
28	CTGS 12.7mm Elec Eod L1A1	12/12-014	50	2	100	5	72	10	0.3	0.16	0.19	0.01	No data	0.0074	0.74	0276	1.4C
29	Sound Units Electric Outdoor	004-A-10	50	2	100	5	72	10	0.3	0.16	0.19	0.01	No data	0.0035	0.35	0431	1.4G
30	CTGS XL 3 EI	006-A-10	10	2	20	7.2	72	14.4	0.3	0.16	0.19	0.01	No data	0.00169	0.03	0276	1.4C
31	Explosive Cutting Tape 63gm/M	LTE15D322-001	6	4	24	12	4	48	0.6	0.8	0.6	0.29	No data	0.0625	1.50	0288	1.1D
32	Explosive Cutting Tape 100gm/M	02/16-078	6	4	24	15	4	60	0.6	0.8	0.6	0.29	No data	0.1	2.40	0288	1.1D
33	Explosive Cutting Tape 240gm/M	002/2018 SBDS	4	2	8	12	4	24	0.6	0.8	0.6	0.29	No data	0.24	1.92	0288	1.1D
34	Fuze Safety Mtrs Wasag	02/2088 SBDS	80	10	800	9	72	90	0.37	0.22	0.34	0.03	No data	0.001	0.80	0105	1.4S
35	PE No4 8oz Ctgs	003/2019 SBDS	20	10	200	8	24	80	0.62	0.35	0.20	0.04	No data	0.226	45.20	0084	1.1D
36	Matches Fuzee	006-A-17	50	20	1000	6	72	120	0.3	0.16	0.19	0.01	No data	0.001	1.00	0131	1.3
37	SM-EOD 33 P Kit	A99-L-18F	30	2	60	11	10	22	0.47	0.38	0.31	0.06	No data	0.024	1.44	0441	1.4S
38	SM-EOD 20 Kit	007-15T	50	2	100	11	10	22	0.47	0.38	0.31	0.06	No data	0.0115	1.15	0441	1.4S
39	SM-EOD 33 Kit	024-10S	30	2	60	11	10	22	0.47	0.38	0.31	0.06	No data	0.057	3.42	0441	1.4S
40	SM-EOD 67 Kit	002-15AT	4	3	12	15	10	45	0.47	0.38	0.31	0.06	No data	0.444	5.33	0059	1.1D

Slide 1

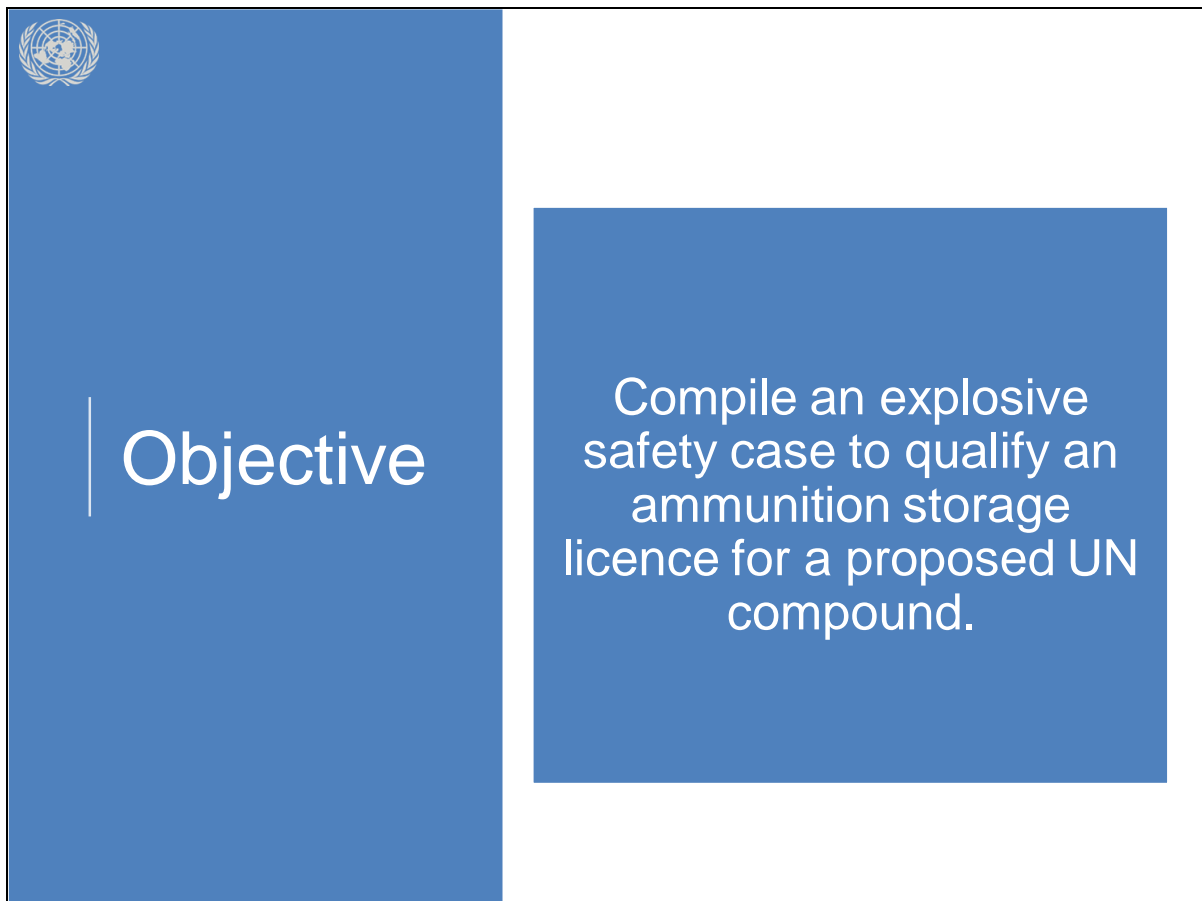


Key Reference Documents:

- UN Manual on Ammunition Management
- UN Weapons and Ammunition Management Policy (WAM)
- International Ammunition Technical Guidelines (IATG)

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Slide 2



The slide features a blue header with the United Nations logo in the top left corner. The word "Objective" is written in white on a dark blue background. To the right, a white box contains the objective text on a blue background.

Objective

Compile an explosive safety case to qualify an ammunition storage licence for a proposed UN compound.


Main idea/objective for slide:**Phase 1. Introduction - Introduce the objectives of the lesson.**

(Enabling Objective: 2.4.2 Compile an explosive safety case to qualify an ammunition storage licence for a proposed UN compound.)

What the instructor should cover (in addition to slide content)

By the end of this training session the participant will compile an explosive safety case to qualify an ammunition storage licence for a proposed UN compound

Slide 3



Lesson
overview

Apply what you've learnt in the workbook and training sessions to the full range of Weapons and Ammunition Management activities required in UN peacekeeping operations.

Using a fictitious scenario, compile an explosive safety case to qualify a licence for a temporary ammunition storage site at a proposed contingent compound.

Main idea/objective for slide:
Introduce the Key Learning Points

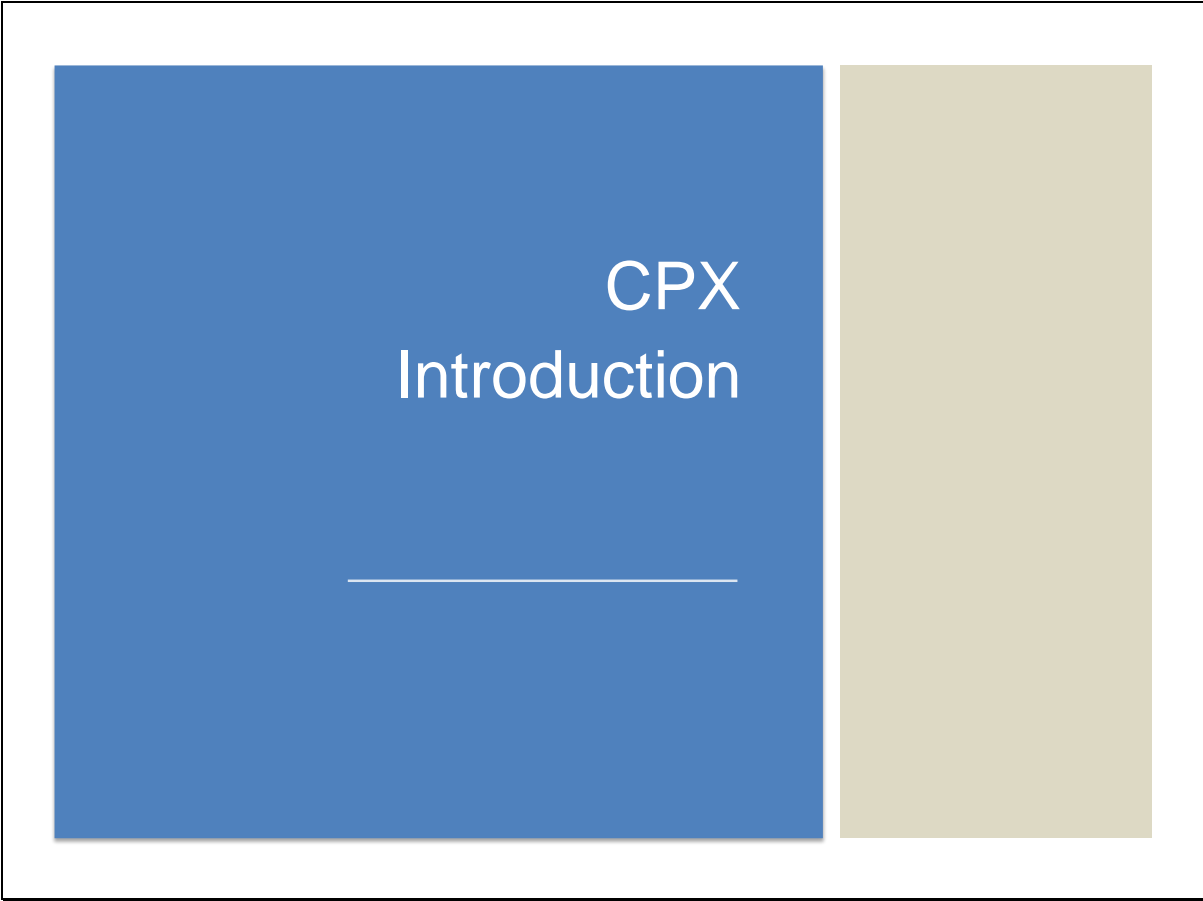
Key Learning Points

- 2.4.2.1 Analyse a proposed plan for a temporary storage area for suitability.
- 2.4.2.2 Analyse the ammunition holdings.
- 2.4.2.3 Analyse the controls required to mitigate the explosive risk.
- 2.4.2.4 Analyse all safeguarding requirements for the safe storage of a UN T/PCC contingents' ammunition.
- 2.4.2.5 Evaluate the internal and external quantity distances relevant to a proposed UN compound.
- 2.4.2.6 Justify a selected alternative for siting an ammunition temporary store.

2.4.2.7 Compile a suitable explosive risk assessment for ammunition management in temporary storage on a UN peacekeeping operation.


2.4.2.8 Compile an explosive safety case to qualify an ammunition storage licence for a new temporary storage area.

Slide 4



Phase 1. Introduction (Time allocation - 45 min)

Slide 5




Task Overview

- A special request has been received by member states, from the UN Secretary General's office after the recent HOM meeting. The request is for a force of 200+ UNAC peacekeepers to enhance the protection of civilians (POC) mandate by providing increased security around the town of Mia in Sector 3
- Specifically, this force is to provide direct security for the Internally Displaced Persons (IDP) camp which has recently developed on the outskirts of Mia. The civilians accommodated in this camp are receiving aid from UNHCR and many NGOs. Both these organisations are also currently in the camp. The alert level is high and attacks on UN personnel and bases are common

Main idea/objective for slide:

Introduce task

Slide 6



Task Overview

- This new UNAC force is to enter the theatre of operations in 4 months' time. Planning for the new camp location, including the layout of key areas such as accommodation, feeding, communication and storage, has started and a draft plan has been submitted by the UNAC senior force engineer.
- The SATO has mandated that UNAC's team of WAM experts are involved in the detailed planning for the new camp and although its location has been assigned by the Government of CARANA, and therefore cannot be altered, the detailed internal layout of the camp is still in the design stage and can therefore be amended.

Main idea/objective for slide:

Introduce task

What the instructor should cover (in addition to slide content)

Distribute the following to participants :

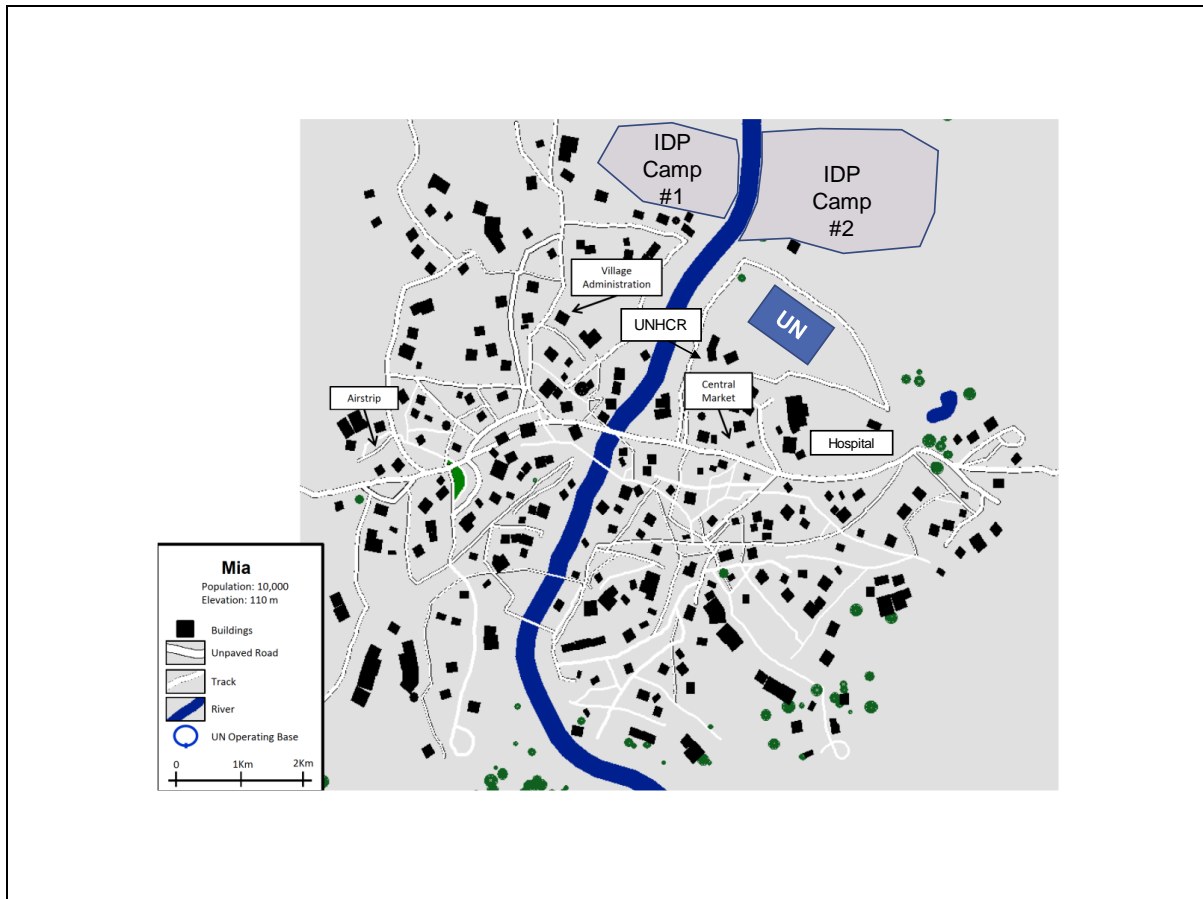
- WAMUNPOC L17 Annex A to CPX Participant Handout
- WAMUNPOC L17 Annex B & C to CPX Participant Handout
- Participant Task 1 Handout
- Graph paper/model
- Slides 7-11
- NOTE – the instructor map (suggested solution) is in this slide deck (slide 17)– do not provide this to participants

References/further reading

Additional resources for instructor:

- WAMUNPOC L17 Facilitator Notes
- WAMUNPOC L17 Annex B to CPX Instructor Map

Slide 7



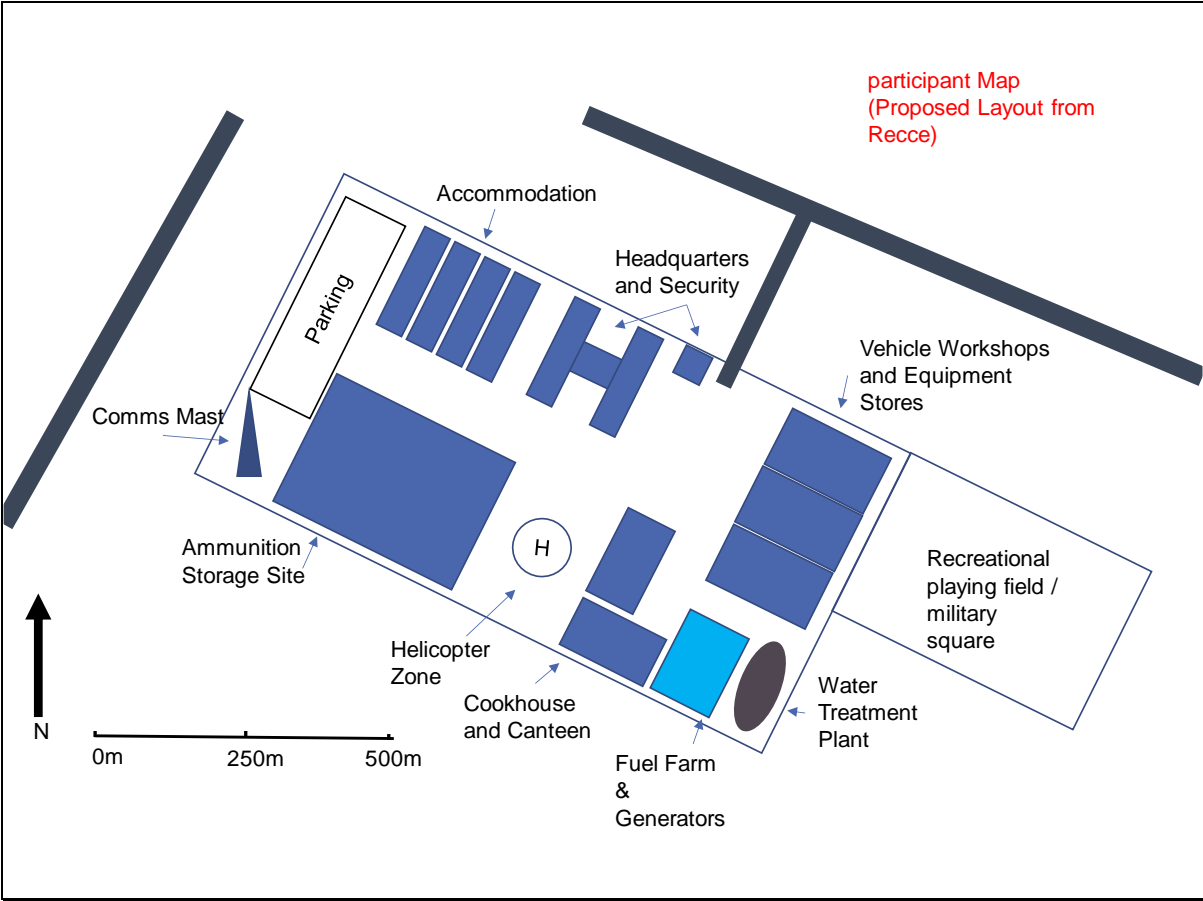
Main idea/objective for slide:
Introduce General Map Overview – MIA

What the instructor should cover (in addition to slide content)

Point out Key locations:

- UN Base
- IDP Camps
- Central Market
- UNHCR
- Hospital

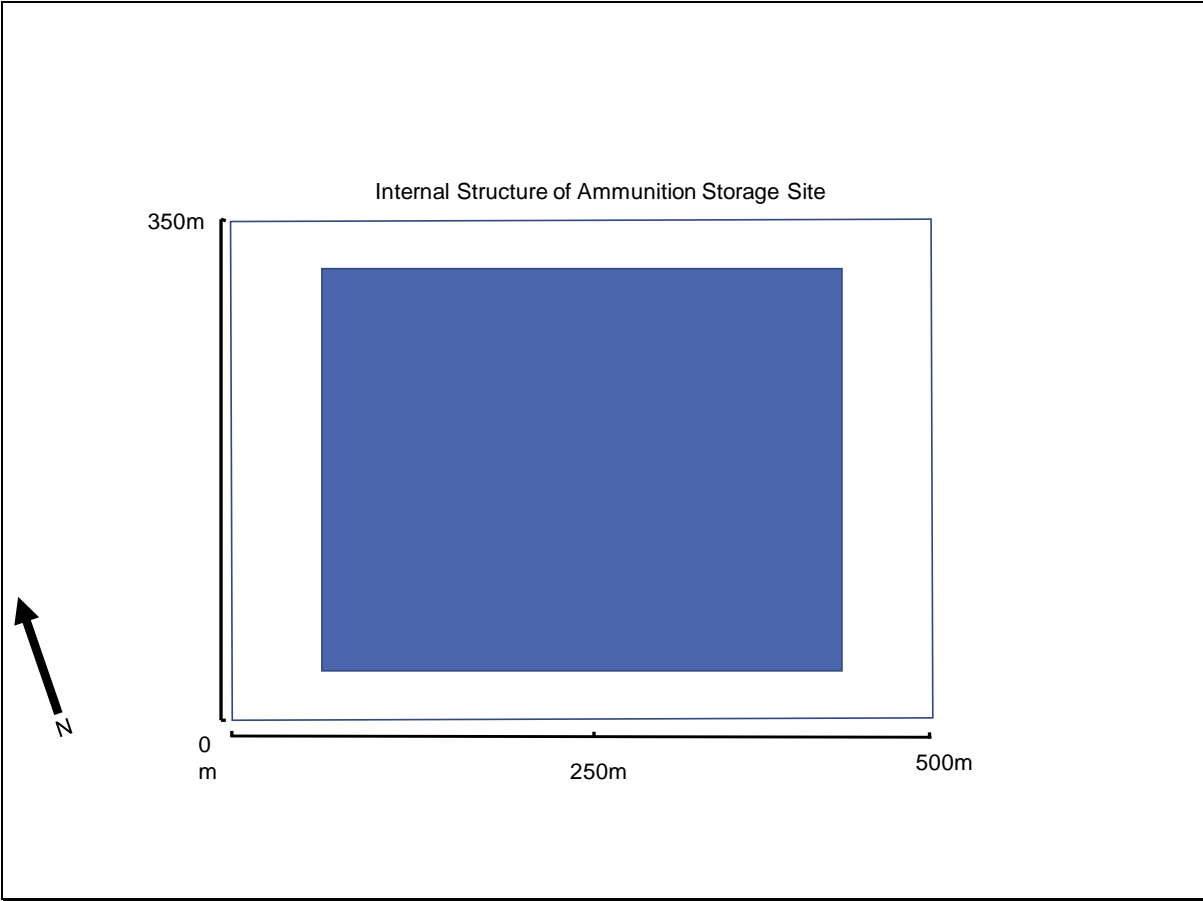
Slide 8



Main idea/objective for slide:
Introduce Current UN Base Footprint

What the instructor should cover (in addition to slide content)
 Highlight all key areas and explain what type of activities occur at each location

Slide 9



Main idea/objective for slide:
Introduce Physical Dimension of the UN Base Footprint.

What the instructor should cover (in addition to slide content)
Stress to participants that this outer perimeter footprint **cannot** be changed

Slide 10

Serial	Description	Lot No	Qty Per Box	Total No Boxes	Total Qty	Wt Box Kg	Standard Boxes per Pallet / Unit of Space	Total Weight Kg	L m	B m	H m	C.C m3	Tot CC m3	Neq Rd	Total Neq	Un No	H.C.C
1	AT 4 HEAT	16 BEF 17	4	24	96	45	4	1080	1.06	0.80	0.25	0.21	20.35	0.40	38.40	0181	1.1E
2	Rds 84mm RCL HE 441D	001 BEF 14	6	12	72	35	12	420	0.59	0.42	0.3	0.07	5.35	0.74	53.28	0006	1.1E
3	Rds 84mm RCL HEAT 551	013 BEF 15	6	9	54	41	12	369	0.8	0.43	0.3	0.10	5.57	1.13	61.02	0181	1.1E
4	RDS 84mm HEAT 551	013 BEF 15	6	18	108	41	12	738	0.80	0.43	0.30	0.10	1.86	1.13	122.04	0181	1.1E
5	Rds 40mm x 53 DM111 HE Frag-T	08 L 0034	32	84	2688	19.8	48	1663.2	0.48	0.16	0.26	0.02	1.68	0.02	53.76	0321	1.2E
6	Bomb Mortar 60mm HE Mk61 FZD V9 COMP	8-BSA-15	10	72	720	31.5	18	2268	0.51	0.4	0.19	0.04	2.79	0.3035	218.52	0167	1.1F
7	Bomb Mortar 120mm HE 88	03-16 A	2	140	280	45	8	6300	0.85	0.30	0.18	0.05	6.43	3.82	1069.60	0321	1.2E
8	RDS 12.7mm M/BELT L/R 1APIHC/1BALL/1TR Rds 7.62mm M/Belt 3BALL/1TR/1AP M13	003 D 17	300	168	50400	16	72	4800	0.38	0.24	0.36	0.03	5.52	0.02	856.80	0300	1.4G
9	LINKS	01 FIN 10A	500	160	80000	18	72	2880	0.29	0.16	0.19	0.01	1.33	0.00	240.00	0012	1.4S
10	Rds 5.56mm Ball	00221/F	990	216	213840	15	72	3240	0.31	0.15	0.19	0.01	1.91	0.0017	363.53	0012	1.4S
11	RDS 7.62mm BALL	819 FIB 18	560	56	31360	17	72	952	0.31	0.15	0.19	0.01	0.49	0.0027	84.67	0012	1.4S
12	Rds 7.62mm AP	01 HA 09	500	8	4000	14.25	48	114	0.42	0.36	0.12	0.02	0.15	0.003	12.00	0012	1.4S
13	RDS 7.62mm TRACER	02 HA 09	500	8	4000	14.25	48	114	0.36	0.25	0.22	0.02	0.16	0.003	12.00	0012	1.4S
14	RDS 9mm BALL	ZZ 146-06	1500	1	1500	18	48	18	0.37	0.22	0.34	0.03	0.03	0.0004	0.60	0012	1.4S
15	RDS .308in Win HPS (Sniper)	56-HA-12	600	1	600	18.7	48	18.7	0.5	0.37	0.1	0.02	0.02	0.003	1.80	0012	1.4S
16	Bombs Mortar 120mm Illum	NIR 09-18T	2	40	80	45		1800	0.85	0.30	0.18	0.05	No data	2.61	208.80	0171	1.2G
17	Rds 84mm RCL Illum 545C	BIF 09 012	6	12	72	34	12	408	0.59	0.42	0.30	0.07	No data	0.96	69.12	0171	1.2G
18	Grenade 66mm Smk Screening IR	0102 AA 012	4	100	400	7.8	48	780	0.30	0.16	0.18	0.01	No data	0.05902	23.61	0303	1.4G
19	Grenades 66mm Smk Screening V102 LR	009 AA 2-16	32	24	768	19.35	48	464.4	0.62	0.35	0.20	0.04	No data	0.22	168.96	0303	1.4G
20	Rds 40mm Beanbag	002/2012 SB	32	500	16000	23.00	48	11500	0.62	0.35	0.20	0.04	No data	0.24	0.01	0012	1.4S

Main idea/objective for slide:
This table outlines the Ammunition holdings for the Temporary Storage Area

What the instructor should cover (in addition to slide content)
 The instructor should go through this table with the participants, and ensure they understand where the quantities, unit size and HCC are shown for each ammunition nature.
 (Table 1 of 2)


Slide 11

Serial	Description	Lot No	Qty Per Box	Total No Boxes	Total Qty	Wt Box Kg	Standard Boxes per Pallet / Unit of Space	Total Weight Kg	L m	B m	H m	C.C m3	Tot CC m3	Neq Rd	Total Neq	Un No	H.C.C
21	Charge SX4 Sheets	O1-2017	20	1	20	23	72	23	0.3	0.3	0.4	0.04	No data	0.315	6.40	0084	1.1D
22	Cortex Metres	O1-2019-A	50	2	100	9.5	72	19	0.31	0.15	0.19	0.01	No data	0.84	84.00	0065	1.1D
23	Ctgs Injector L2A1	09/12-009	50	10	500		72	0	0.31	0.15	0.19	0.01	No data	0.00161	0.81	0276	1.4C
24	Detonators Demolition L1A2	10/12-009	50	2	100	8	72	16	0.3	0.16	0.19	0.01	No data	0.00115	0.12	0030	1.1B
25	Detonators Demolition L1A2	08/14-005	24	4	96	7.2	72	28.8	0.3	0.16	0.19	0.01	No data	0.00115	0.11	0456	1.4S
26	Detonators Demolition L2A2	02/12-008	50	2	100	9	72	18	0.3	0.16	0.19	0.01	No data	0.00115	0.12	0030	1.1B
27	Igniters Safety Fuze Electric	01/12-009	50	4	200	5	72	20	0.3	0.16	0.19	0.01	No data	0.00115	0.23	0131	1.4S
28	CTGS 12.7mm Elec Eod L1A1	12/12-014	50	2	100	5	72	10	0.3	0.16	0.19	0.01	No data	0.0074	0.74	0276	1.4C
29	Sound Units Electric Outdoor	004-A-10	50	2	100	5	72	10	0.3	0.16	0.19	0.01	No data	0.0035	0.35	0431	1.4G
30	CTGS XL 3 EI	006-A-10	10	2	20	7.2	72	14.4	0.3	0.16	0.19	0.01	No data	0.00169	0.03	0276	1.4C
31	Explosive Cutting Tape 63grm/M	LTE15D322-001	6	4	24	12	4	48	0.6	0.8	0.6	0.29	No data	0.0625	1.50	0288	1.1D
32	Explosive Cutting Tape 100grm/M	02/16-078	6	4	24	15	4	60	0.6	0.8	0.6	0.29	No data	0.1	2.40	0288	1.1D
33	Explosive Cutting Tape 240grm/M	002/2018	4	2	8	12	4	24	0.6	0.8	0.6	0.29	No data	0.24	1.92	0288	1.1D
34	Fuze Safety Mtrs Wasag	02/2088 SBDS	80	10	800	9	72	90	0.37	0.22	0.34	0.03	No data	0.001	0.80	0105	1.4S
35	PE No4 8oz Ctgs	003/2019	20	10	200	8	24	80	0.62	0.35	0.20	0.04	No data	0.226	45.20	0084	1.1D
36	Matches Fuzee	006-A-17	50	20	1000	6	72	120	0.3	0.16	0.19	0.01	No data	0.001	1.00	0131	1.3
37	SM-EOD 33 P Kit	A99-L-18F	30	2	60	11	10	22	0.47	0.38	0.31	0.06	No data	0.024	1.44	0441	1.4S
38	SM-EOD 20 Kit	007-15T	50	2	100	11	10	22	0.47	0.38	0.31	0.06	No data	0.0115	1.15	0441	1.4S
39	SM-EOD 33 Kit	024-10S	30	2	60	11	10	22	0.47	0.38	0.31	0.06	No data	0.057	3.42	0441	1.4S
40	SM-EOD 67 Kit	002-15AT	4	3	12	15	10	45	0.47	0.38	0.31	0.06	No data	0.444	5.33	0059	1.1D

Main idea/objective for slide:
This table outlines the Ammunition holdings for the Temporary Storage Area

What the instructor should cover (in addition to slide content)
 The instructor should go through this table with the participants, and ensure they understand where the quantities, unit size and HCC are shown for each ammunition nature.
 (Table 2 of 2)

Slide 12




Task Deliverables

- Examine the information provided, including the sketch maps, and logically identify a suitable location for this Temporary Storage Area while considering all the external/internal factors.
- Consider the layout, construction and materials required to fulfil your plan and provide a sketch of your proposed layout.
- The internal layout of the Temporary Storage Site will also be required ensuring consideration for the mixing of ammunition types.
- Provide a brief on explosive risk assessment and explosive safety case that you have created to qualify the licence for the new Temporary Storage Area

Main idea/objective for slide:

Highlight the deliverables on 'participant Task 1 Handout' WAMUNPOC L17 Exercise;

Slide 13



Task Deliverables

Brief to include:

- The suitability of the pre-selected site for the requirements laid down.
- A suitable location to site the Temporary Storage Area within the proposed compound and the positions of the other required facilities.
- A description of UOS allotment within the ESH (storage plan).
- Specify the quantity distances and correct ammunition mixing aligned to the IATG HCC's.
- An explosive licence for review and sign-off by the SATO.
- An explosive risk assessment.
- Provide a sketch map on graph paper or using models detailing the floor plan for your storage site. The location of the various ammunition natures, your barricade requirements, if any, and any other facilities/items you consider should be in location.

Main idea/objective for slide:

Highlight the deliverables on 'participant Task 1 Handout ' WAMUNPOC L17 Exercise;

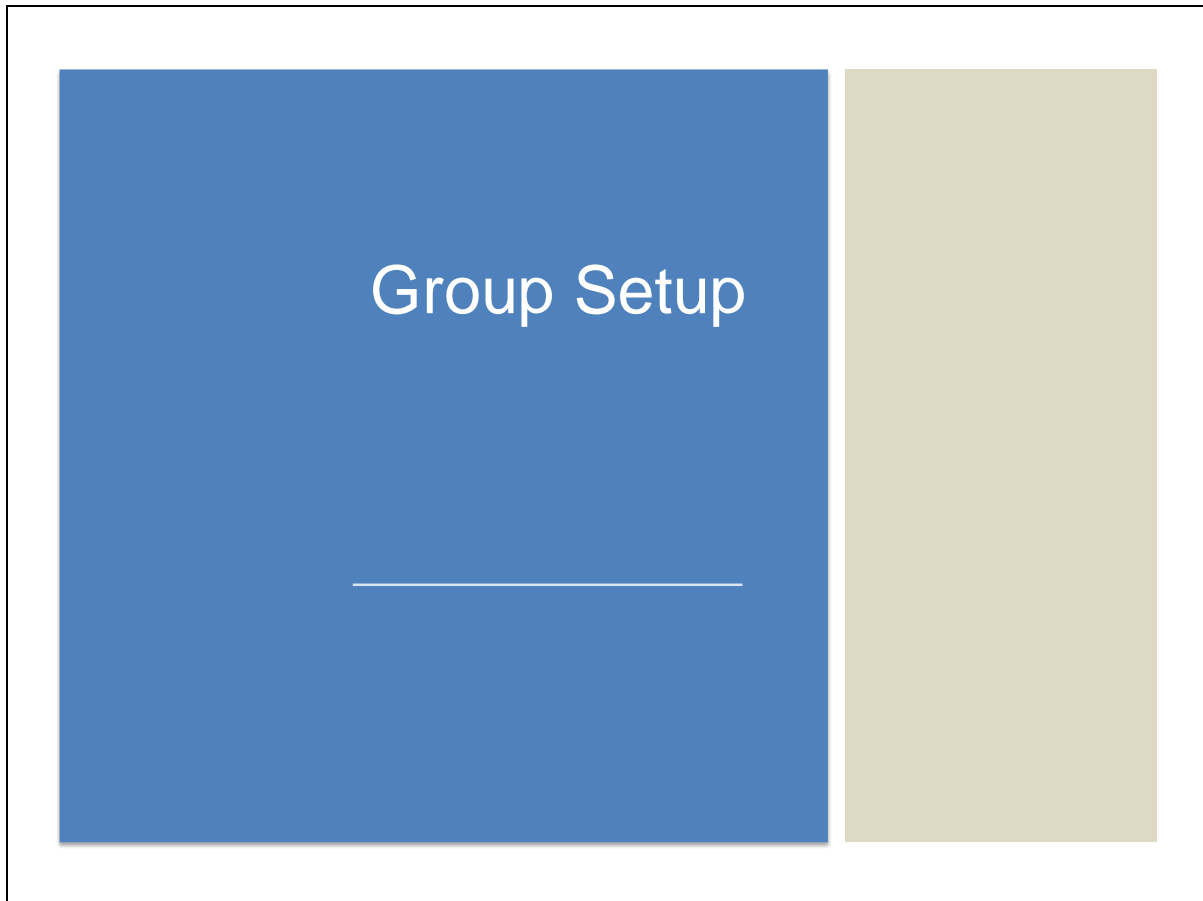
What the instructor should cover (in addition to slide content)

Explain timings – total time, when backbriefing will begin, breaks;

Give participants opportunity to ask questions about the task; and

Break class into groups of 6 participants. Attempts should be made to split nationalities between groups.

Slide 14

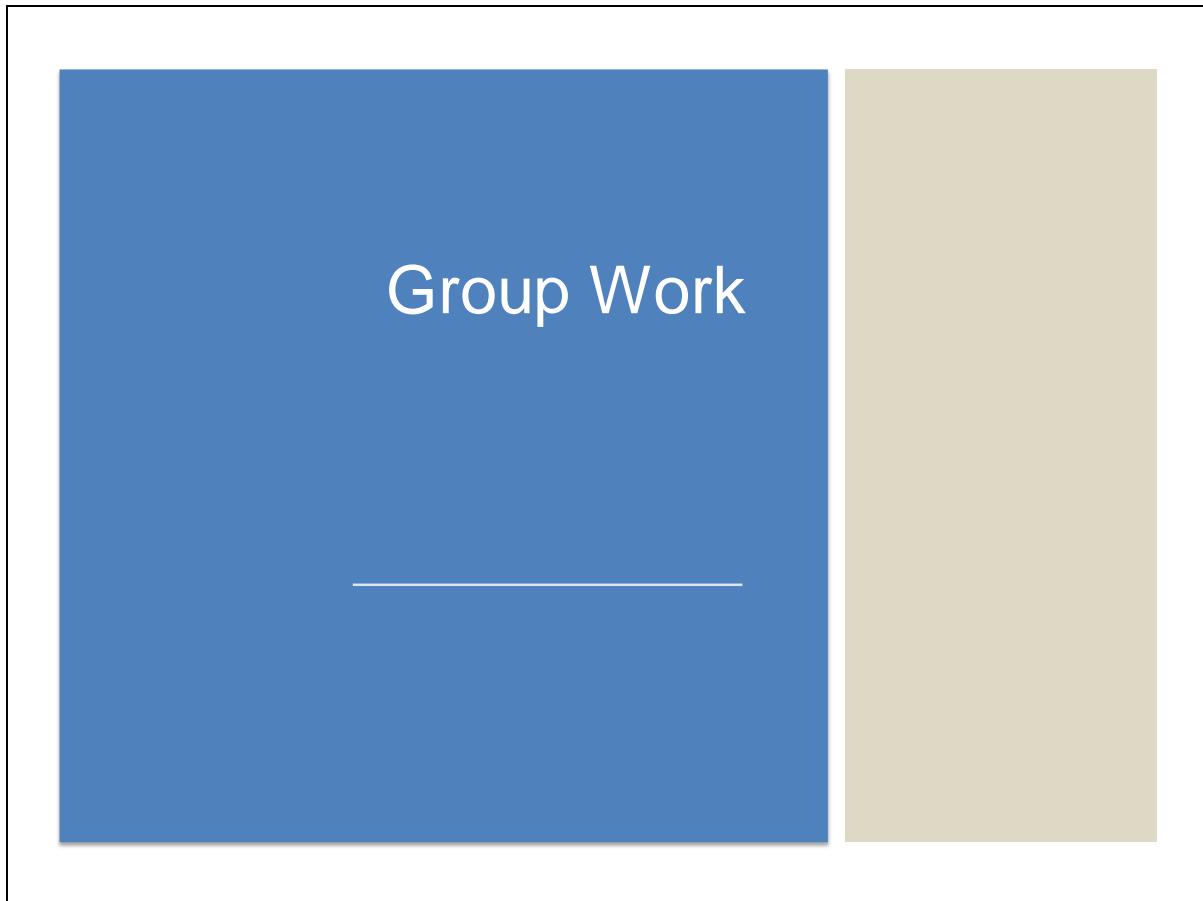


Main idea/objective for slide:
Setup groups for activity

What the instructor should cover (in addition to slide content)

- Ask participants to organise themselves into groups that look into the different areas required under this scenario e.g. Review of selected FOB location, siting of TSA within the camp, internal design Temporary Stack Modules, Temporary Storage Site (TSS) and the design of the TSA, development of the licence and risk assessment.
- Concurrent activity should be encouraged;
- Ask participants to organise their time so that they will be ready to backbrief by the given deadline; and
- Introduce additional resources participants can use during the exercise.

Slide 15

**Main idea/objective for slide:**

participants to work in their groups to complete the exercise: Time allocation 200 mins

What the instructor should cover (in addition to slide content)

- Instructor to circulate between groups to support their work;
- Encourage participants to refer back to WAMUNPOC L17 Exercise ('participant Task 1 Handout'), Annexes, CARANA reference documents, previous course sessions and the UN Manual on Ammunition Management; and
- Give regular time reminders.

Slide 16

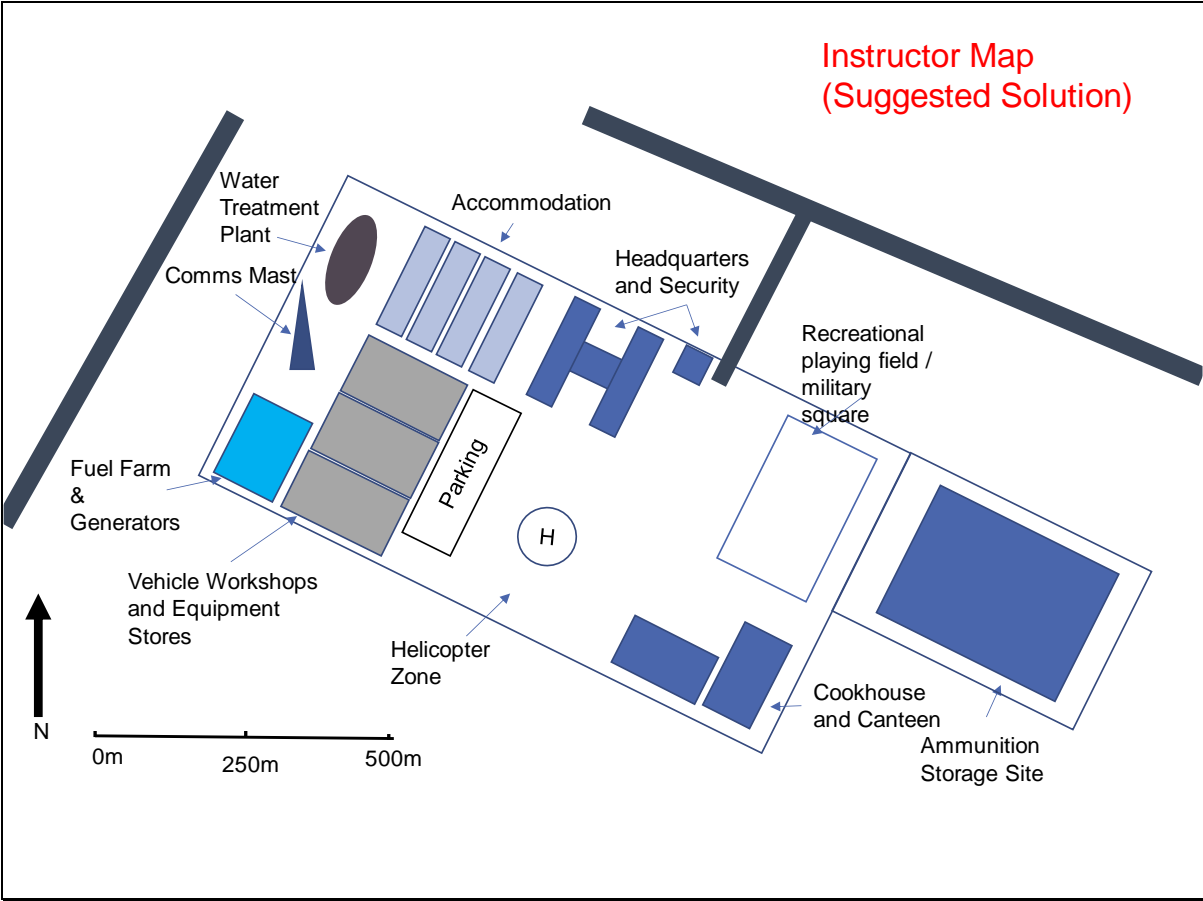


Main idea/objective for slide:

participants to back brief the instructors on the deliverables: Time allocation 80 mins

What the instructor should cover (in addition to slide content)


- Each group to be given 15 minutes for the backbrief, and 5 minutes for questions.



DO NOT SHOW UNTIL AFTER PARTICIPANT PRESENTATIONS

Main idea/objective for slide:
Discuss with the participants this Instructors Suggested Solution.

What the instructor should cover (in addition to slide content)
Get feedback from the participants.



Lesson overview

Apply what you've learnt in the workbook and training sessions to the full range of Weapons and Ammunition Management activities required in UN peacekeeping operations.

Using a fictitious scenario, compile an explosive safety case to qualify a licence for a temporary ammunition storage site at a proposed contingent compound.

Summary

In this lesson, participants engaged in a Command Post Exercise (CPX) designed to exercise their skills across the full range of Weapons and Ammunition Management (WAM) activities required in UN peacekeeping operations. Key learning points included:

- Participants applied the knowledge and skills acquired from previous lessons and training sessions to various WAM activities essential for UN peacekeeping operations.
- The CPX utilized a fictitious scenario based on the UN's CARANA scenario, tailored to the role of T/PCC ammunition managers deploying on a peacekeeping mission. This scenario provided a realistic context for participants to apply their skills.
- Participants were tasked with compiling an explosive safety case to qualify for a license for a temporary ammunition storage site at a proposed contingent compound. This exercise required participants to demonstrate their ability to assess risks and implement safety measures in accordance with UN standards.

Slide 19

**Main idea/objective for slide:**

Look ahead to the next lesson of the course:

- End of course assessment;
- Course Debrief; and
- Closing Ceremony.

Lesson 4.3



Lesson 4.3: Final Assessment

Slide 1



45 minute multiple choice test

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Module 4



Integrated practical exercises and knowledge evaluation Wrap up

At the conclusion of Module 4, a few concluding points are worth noting:

- The practical exercises and final assessment in Module 4 are designed to ensure participants are thoroughly prepared to manage ammunition storage and safety in UN peacekeeping operations. By applying previously learned concepts to tailored scenarios, participants gain valuable hands-on experience and demonstrate their capability to handle the complexities of explosive safety and risk management.
- The final assessment serves as a comprehensive evaluation of their knowledge across all modules, confirming their readiness to take on responsibilities in the field. Participants leave this module equipped with the skills and confidence needed to effectively ensure the safety and security of ammunition storage in various operational contexts.