European College of Veterinary Public Health (ECVPH) Annual Congress Perugia, Italy, October 18th 2018

# FOOD SAFETY IN MILITARY OPERATIONS

COL Simone SIENA ITA ARMY VS, DVM

# PURPOSE

To give an overview about organization and procedures on food safety within force health protection during military operations.

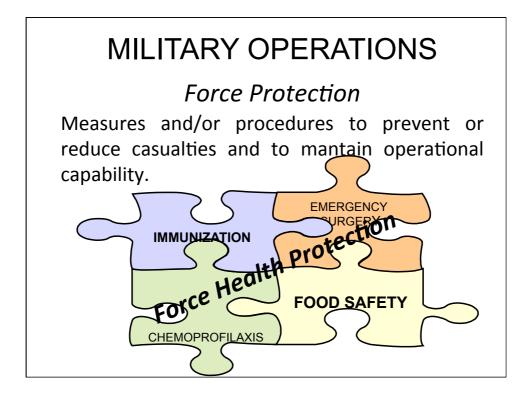
# AGENDA

- · MILITARY OPERATIONS
- · NATIONAL ORGANIZATION
- · INTERNATIONAL STANDARDIZATION
- · CONCLUSIONS

# MILITARY OPERATIONS

ITA MILITARY FORCES MISSION

- · Homeland security
- · North Atlantic territories security and concerns
- Supporting peace and international security according to Human Rights and UN Charter
- Supporting other national branches in case of emergency (earthquake, flooding, etc.)









## INTERNATIONAL ORGANIZATION FOR MILITARY OPERATIONS

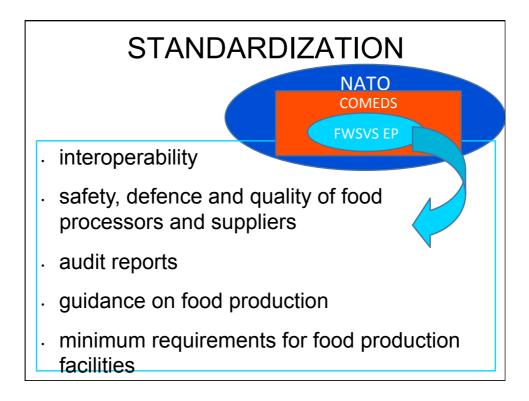
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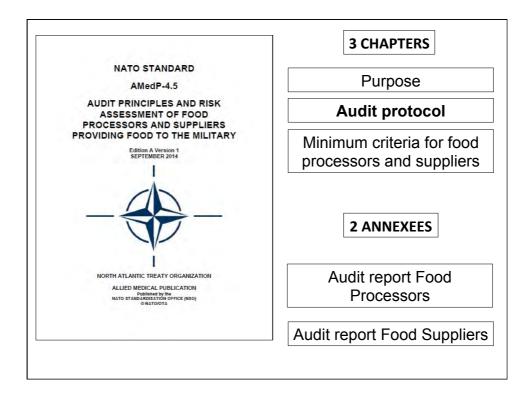
## NATO - COMEDS

(Committee of the Chiefs of Military Medical Services)

## NATO - FWSVS EP

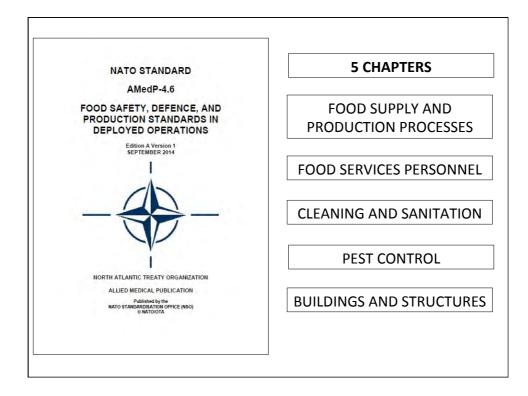
(Food and Water Safety and Veterinary Services Expert Panel)

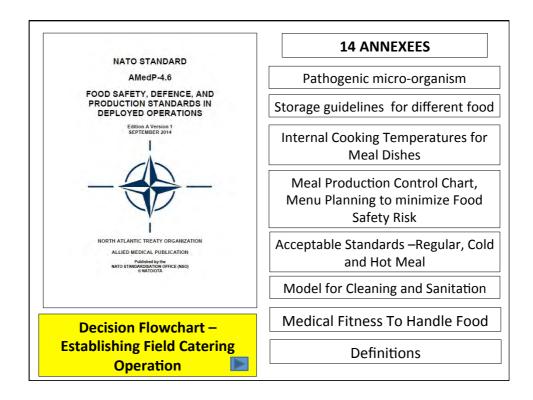




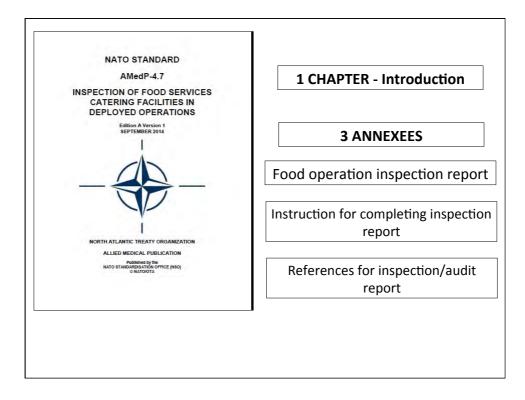
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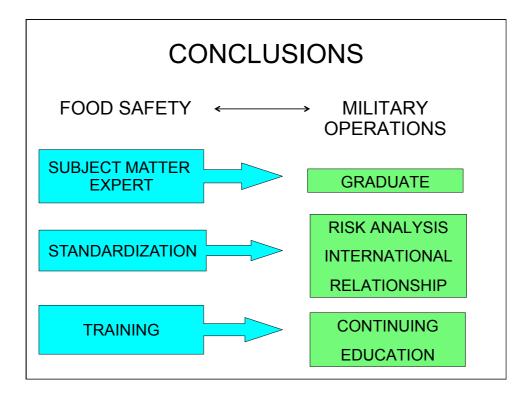




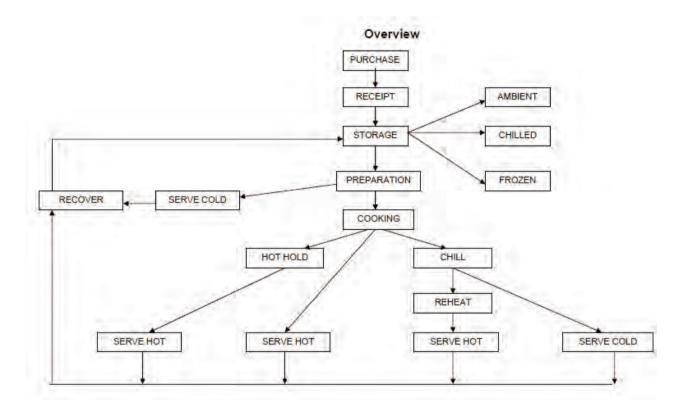
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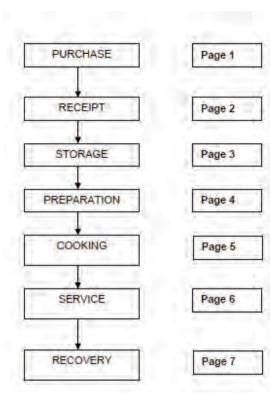


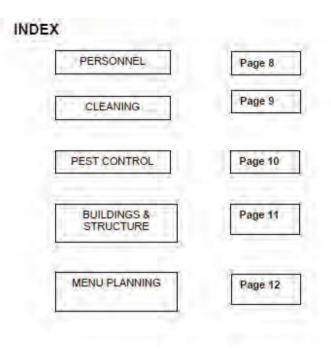
FACILITY NAME AND LOCATION DATE (YYYYYMDD) STAR					START TIME	E END 1	TIME	FACILITY NAME & LOCATION DATE INSPECTION TYPE C Routine Comptaint Follow-I Preoperational Conter						Folicw-up	
INSPECTOR (rank, name) INSPECTOR PHONE INSPECTOR E-MAIL							TEMPERATURE OBSERVATIONS Circle the temperature scale used								
INSPECTOR UNIT/ORGANIZATION INSPECTION TYPE			GAN/ZATION	INSPECTION TYPE		_	_		Food	Item and Location	Temp %F/%C	Food Item and Location	Temp *F/*C	Food Item and Location	Tem #F7*
Routine Complaint Protow-up Preoperational					_	-		-				+			
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INFRASTRUCTURE FINDINGS Critical Major Observation				Complant Partially Complant Unsatisfactory			B DN		-			REMARKS	_		_
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_0	tical _		lajorObservation	Compliant Partially C	compliant [] Unsatisfactory				Number	0	efficiencies nite	ed in this report must be corrected	within the tim	e frames specified below	
em į	TRASE	NO N		FINDING tical, M = Major, Q = Observatio	· · ·		M O	5							
-	CIN	0 10	C = Crt Administration. Managem		n, S + Satisfactory	¢	MO	5							
1			Required records and docu	menta available medical, training t	SOPs, HACCP, Personnel transc	d									
2	-	-	Food Procurement Food and eater from appro	wed sources		-		-							
1		-	Receipt of Food Supplies												
à.			Delivery inspection procedul temperature. Disposition of	ures adequate; Food in good condit ( unsafe or expired food	ion, sale, and unadulterated; Rec	ept									
- 7	-	-	Food Storage			_									
4	ehi	a la cara	Food Preparation and Ha	eparated and protected. Property lac inding	ered, remperature, stock rotatio	-		de la							
5	T	1	Contamination prevented in	sanitation, personnel, tastingi; Desi	gnaled areas; Fresh fruits and										
1	-	-	vegetables properly treated Approved thawing methods	s. Time and temperature controls: P	toper cooling procedures			+-							
	-	-	Cooking			-		-							
1	-	-	Proper cooking and reheat	ing time and temperatures; Thermo	meters available & Loed	-		den d							
8	1	1	Proper holding temperature	es. Adequate management of dispe-	rsed meals, Food protected	_									
9.1	1	1	Recovery of Leftovers Proper date marking, label	ing, storage, handling and dispositio	n	_		-							
	-	-	Personnel	hair restrant, jeweity, No eating or											
10		1	Personal items stored prop	erty.	a										
11			Hand washing adequate to	asting: adequate facilities, supplied, accessible, property used, Proper glove use over: reporting, restriction & exclusion; Medical clearance (return to duty); Bandaged cuts											
		-	<b>Cleaning and Sanitation</b>			1 million (1997)		1000							
13	-	-	Ware-washing equipment	adequate, proper use, procedures il cisanable & sanitized; nonfood cort	anastenance: Sanitation test kit	h									
	1	1	Utensils, Equipment (Kito	chemwate & Tableware), and Lines		_	-	1							
15	-	-		whs sufficient quantities, serviceab available, property used, maintained		d									
	-	-	Pest Control			-		100							
13	-	1	Monitor and control of inser Facilities	ct and animalis. Proper use of contro	sis, Pest entry & harborage preve	ented									
16	T	T	Chemical substances propri	erly identified, stored and used. App											
19	-	-	Approved plumbed system Plumbing cross connection	Hot & cold potable water available is: Backflow devices, Sewape & water	Adequate capacity and pressure its water property disposed. Creat	a		-							
20	-	-	traps mantained	1		-		-	Inconst	on Ratings:		nt = Zero (0) Critical or Major, and			
21	-	-	Adequate building structure	nagement & disposal. Facilities man es & designated roomstareas to sup	port the food operation; Floors, w	als.			mspects	in Koungs.		Compliant - Zero (0) Critical, 2 c			
23	+	-	ceilings properly installed & Lighting: adequate, proper	Linarianed Tolet rooms supplied	& mantained	-		-	Skonature o	in this form represents as	Unsatisf	actory = > 1 Critical, or 3 or more tithat the person in charge has been 1	<ul> <li>Major, or 1</li> <li>mieled on the r</li> </ul>	1 or more Observational findings deficiencies noted, corrective actions	and time
24			Ventilation - general and lo	cal exhaust, hoods and fibers: adeq	sate, maintained				trame for co	implation, the final inspe	ction natings, ar	It that the person in charge has been t ind date scheduled for follow-up inspec	ton (Unsetisfe	actory ratings aniy)	
25	_	1	Ice machines properly main Other Findings	ntamed and operated, Crots contam	ination prevented	_		-	PERSON	IN CHARGE SIGNAT	URE			DATE	
av 1															

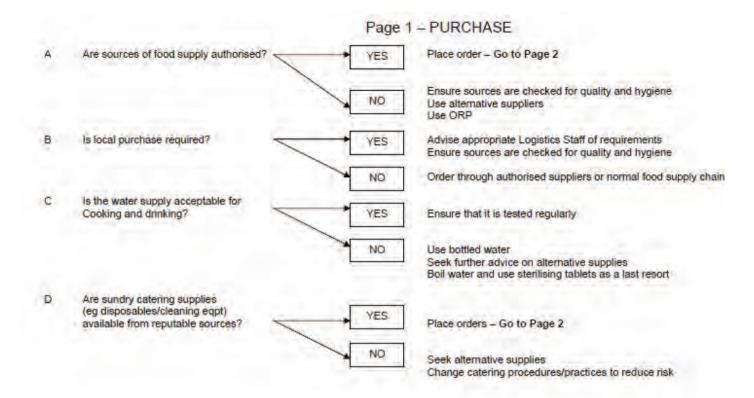


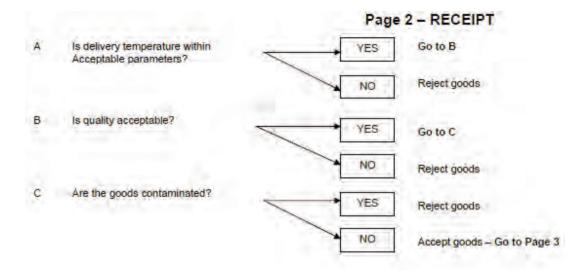




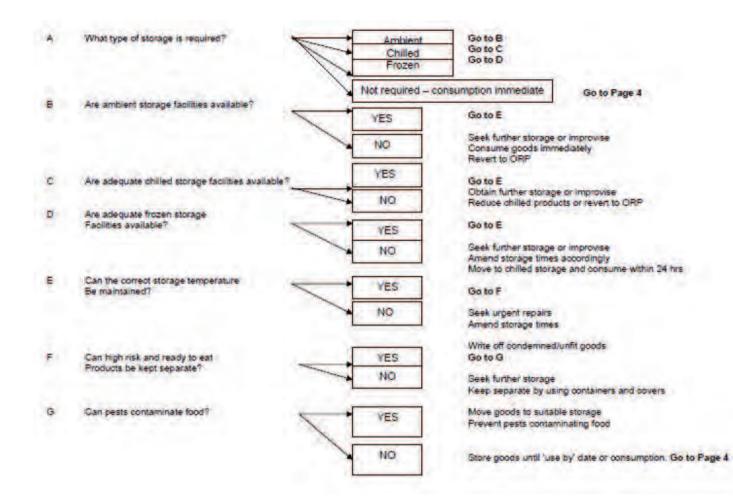






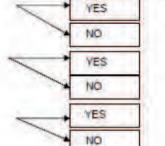


**Edition A Version 1** 

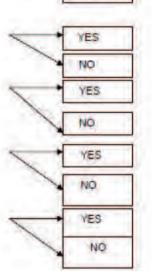


#### A Are adequate preparation areas Available?

- B Are preparation areas able to be Hygienically cleaned between Different activities?
- C Are all food handlers adequately Trained?



- D Are suitable food washing facilities Available?
- E Can pests contaminate food?
- F Can thawing be carried out safely?
- G Are there suitable storage facilities Available for prepared food?



## Page 4 - PREPARATION

#### Go to B

Move location Improvise with additional preparation areas

#### Go to C

Keep high risk activities separate Only prepare low risk items

#### Go to D

Avoid staff handling food Increase supervision Provide ad hoc training until formal training is possible

Also use disinfectants - Go to E.

Obtain further washing facilities Use only goods that are ready to eat

Move goods to suitable preparation areas Prevent pests contaminating food

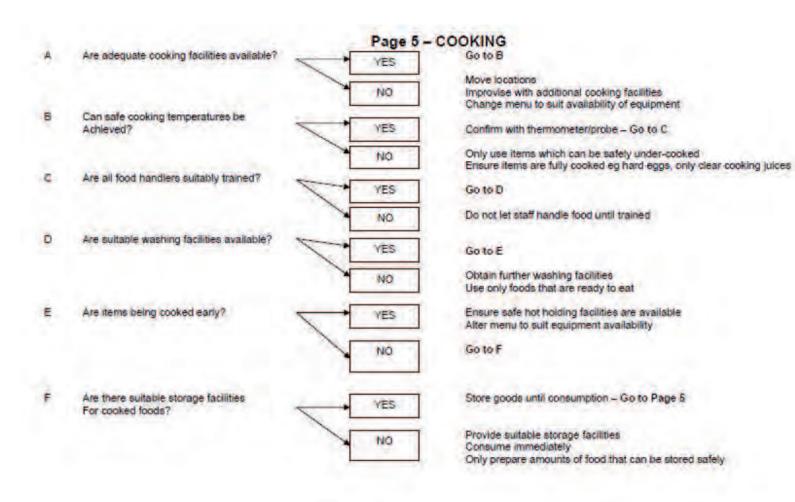
Go to F

Go to G

Provide suitable thawing facilities Reduce amount of frozen items requiring thawing

Store goods until cooking or consumption - Go to Page 5

Consume immediately Only prepare amounts of food that can be stored safely Modify menu plan accordingly



### Page 6 - SERVICE Are suitable serving facilities available? YES NO Can safe holding temperatures be в YES Achieved? NO Are all food servers suitably trained? C YES NO Are suitable washing facilities Available to food serving staff? D YES NO E Can eating items be hygienically Cleaned after use? YES NO F. Is all food consumed from the YES Servery within 2 hrs? NO

#### Go to B

Improvise with additional serving facilities Change menu to suit availability of equipment

#### Go to C

Only use items which can be served at ambient temperatures Only oook as many portions as can be safely served

Go to D

Do not allow staff to handle food Allow self-service

Go to E

Obtain further washing facilities

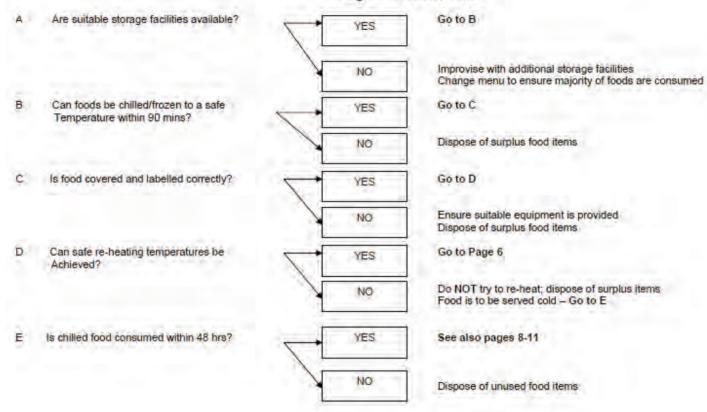
Go to F

Provide disposable items Ensure consumers have suitable washing-up facilities

See also pages 8-11

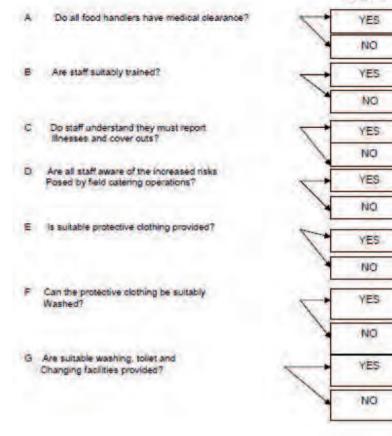
Dispose of food remaining past this time Recover food for chilling/freezing – Go to Page 7 Only prepare amounts of food that are required for immediate consumption

### Page 7 - RECOVERY



**Edition A Version 1** 

## Page 8 - PERSONNEL



#### Go to B

Ensure they obtain appropriate plearance Ensure non-cleared staff do not handle food

#### Go to C

Ensure staff receive suitable training Ensure untrained staff do not handle food Increase supervision

#### Go to D Remind staff of policy Ensure policy is part of conditions of service

Go to E

Regularly reinforce the message Increase supervision

#### Go to F

Ensure suitable equipment is provided Reduce the handling of high risk products Ensure clothes are clean and changed often

#### Go to G

Seek suitable washing facilities Seek disposable items

See also Pages 8-11

Provide suitable facilities Do not handle high risk items

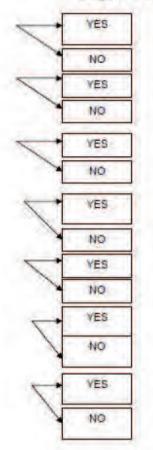
A Are suitably trained cleaning staff Available?

B Do staff understand appropriate Health and Safety procedures

C Is suitable protective equipment provided?

- D Are cleaning materials stored safely in a Locked area?
- E Is a comprehensive cleaning schedule Provided?
- F Are the cleaning tasks carried out correctly?
- G Are the cleaning tasks documented Correctly?





#### Go to B

Recruit cleaning staff Utilise existing manpower

#### Go to C

Explain the immediate, high risk hazards to staff Ensure staff are trained to a level suitable for the task Ensure material safety data sheets and cleaning instructions are available

#### Go to D

Ensure suitable protective equipment is provided. Reduce the handling of high risk products

#### Go to E

Ensure suitable storage is provided

#### Go to F

Draw up a suitable cleaning schedule

#### Go to G

Ensure the tasks are carried out correctly

Maintain documentation for the specified period

Ensure cleaning tasks are documented correctly

### Page 10 - PEST CONTROL

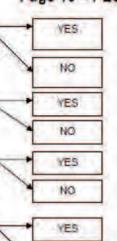


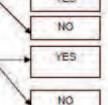
B Is the pest control equipment Operating correctly?

C Are all goods checked regularly For pest infestation?

D Are the high risk areas such as Swill areas kept clean?

E Are there seasonal problems that Can be pre-empted?





Go to B

Set up a pest control contract through Logistics Staff Utilise trained personnel within the Unit

#### Go to C

Ensure the equipment is replaced and maintained Prevent the ingress of pests by other means Prevent pests contaminating food or surfaces

Dispose of contaminated items - Go to D

Carry out regular checks

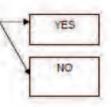
#### Go to E

Ensure cleaning is carried out correctly

Ensure control systems are established early - Go to F

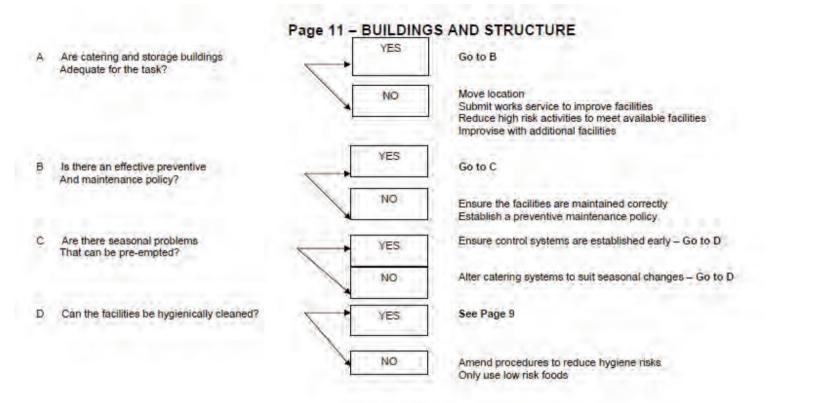
Alter catering systems to suit seasonal changes - Go to F

F Are the pest control procedures documented?



Maintain documentation for the specified period

Ensure the appropriate documentation is kept



### Page 12 - MENU PLANNING

- A Are there any specific food items that Are likely to pose a high risk?
- B Can the menu plan be modified to Reduce risk?

- C Can the nutritional requirements and Menu variety be achieved?



Consider using ORP The menu must only be<sup>provided</sup> for as short a time as possible

See Page 1

Go to B

Remove high risk foods - Go to C

Ensure as many of the risks are reduced as is practicable Inform consumers of the risks (eg eat sandwiches within 4 hrs) Go to Page 1