

# International Urban Search and Rescue Course

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1/29

## **Scope of Presentation**

Overview of CDA

- Course Objectives
- Course Programme
- Key Training Activities



### **OUR CAMPUSES**

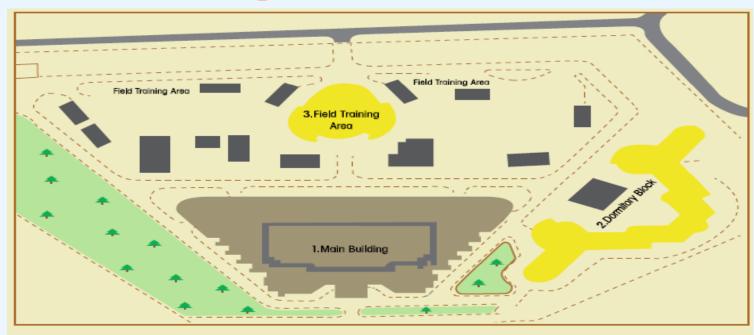






## CDA @ Jalan Bahar





#### Legend

1. Main Building







3. Field Training Area







#### MAIN CAMPUS

**TRAINING FACILITIES** 



















#### MAIN CAMPUS

**CLASSROOM AND LEARNING SPACE** 





















#### MAIN CAMPUS

#### **DORMITORY AND SHARED FACILITIES**















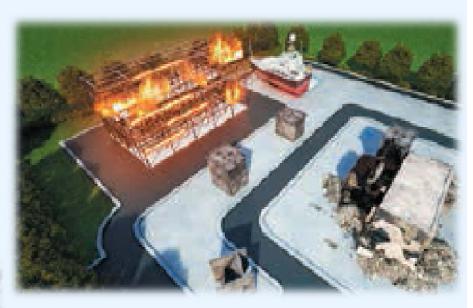




## CDA @ Mandai

#### CDA @ MANDAI TACTICAL CAMPUS



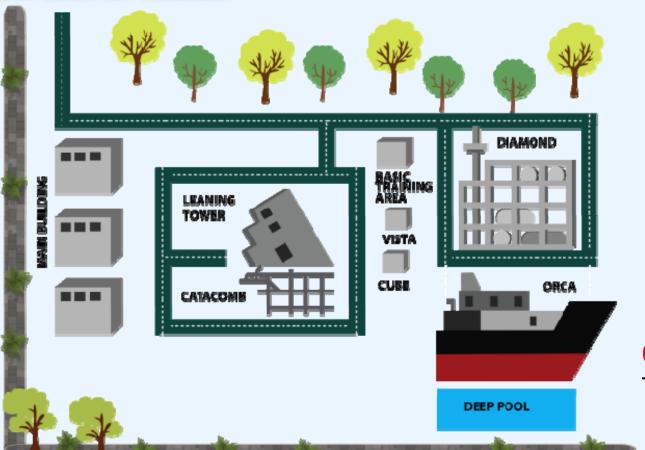






## CDA @ Mandai





## Built on 8 hectares of land

- Spectacular in scale
- Synergy between SPF and SCDF

CDA @ MANDAI TACTICAL CAMPUS



### CDA @ Mandai



#### The Diamond

- Replication of petrochemical plant
- 4-storey infrastructure
- 12 firing points and 3 HazMat points



## The Leaning Tower

- Tilted 3-storey building
- One central ruins and 5 training blocks
- Co-located with 125m tunnel



#### The Orca

- Marine firefighting & rescue
- 4 decks with 8 training compartments
- 15 firing points
- Co-located with 9metre deep pool



#### **CDA COURSES**





#### **CDA COURSES**











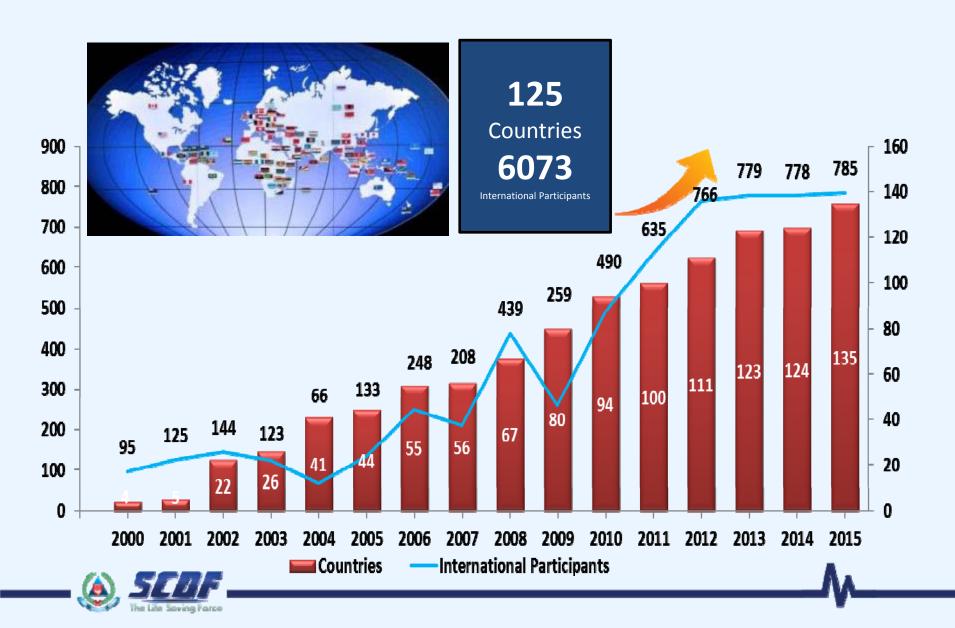








#### INTERNATIONAL ENGAGEMENT



#### INTERNATIONAL COURSES

#### Types of Courses & Assistance

- Standard & Customised Courses
  - Conducted locally & overseas
- Flagship Programme
  - International Fire Fighting Cours
  - International HazMat Course
  - International USAR Course



#### **CONSULTANCY & MENTORING**

Beyond our nation…









#### **Course Overview**

IUSAR course duration : 2 weeks

Course Capacity : 24 Participants

Venue : CDA @ Jalan Bahar

- Course requirement :
  - Due to the strenuous nature of this course, it is mandatory for course participants to seek medical certification before attending the course.
  - Interested participants with a history of heart, respiratory or high blood pressure ailments should NOT apply.



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## Course Programme(Week 1)

#### SINGAPORE CIVIL DEFENCE FORCE CIVIL DEFENCE ACADEMY INTERNATIONAL URBAN SEARCH AND RESCUE COURSE ( OPEN)

Period	1	2	3	4		5	6	7	8	9		10	11	12		
Day/Time	0800-0850	0855-0945	1000-1050	1055-1145		1250-1340	1345-1435	1450-1540	1545-1635	1640-1730		1830-1920	1925-2015	2020-2110		
MONDAY 09/05/2016	In- processing	Course Opening	Overview of SCDF & CDA	Tour of CDA Field Training Area		UN INSARAG System	Principles of USAR Operations	Marking & Identification System	Confined Space Rescue Operation	Types of Collapsed Buildings		Free and Easy				
Location	LR1	VISIO	LR2	FTA	1			LR2								
Instructor		US	AR Instr		1			USAR Instr								
Tuesday 10/05/2016	Casualty Management Rescue Dogs					Evacuation of casualties with / without equipment (Tripod, SKED, Haulsafe)  Evacuation of Casualties with / Technical Search Device - DELSAR & Fibre Optics Scope						Free and Easy				
Location		LR2		TS4	1	TS9										
Instructor		MVB Instr MAJ Tan LP				USAR Instr										
WEDNESDAY 11/05/2016	Height Res	Height Rescue Knots & Lines / Methods of Anchoring			LUNCH	Intro to Breathing Apparatus Proficiency Tes Apparatus (BA) (BAPT)			iciency Test	DINNER	Free and Easy					
Location			TS9		]		E	BA Maze / BA I	LR							
Instructor		USAR Instr						AFFB Intr			Highlights of Week 1					
THURSDAY 12/05/2016						High Angle Rescue Techniques (2-rope System)					- -	- UN INSARAG Marking System				
Location	tion BA Maze Roof Top					Furnance / BA Maze						0				
Instructor	USAR Instr					USAR Instr					-	Casualty Managemen				
FRIDAY 13/05/2016	Cutting Breaking Lifting Equipment  Concrete Breaching Techniques (Clean & Dirty)					Concrete Breaching Techniques (Clean & Dirty)					-	Height Rescue Breathing Apparatus				
Location		Rui	ns / TS4		1	Ruins / TS4						Proficiency				
Instructor	or USAR Instr					USAR Instr						· · · · · · · · · · · · · · · · · · ·				
(4	5/	7/15									-	Breach	ning tecl	nniques		



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## **Course Programme(Week 2)**

#### SINGAPORE CIVIL DEFENCE FORCE CIVIL DEFENCE ACADEMY INTERNATIONAL URBAN SEARCH & RESCUE COURSE (OPEN)

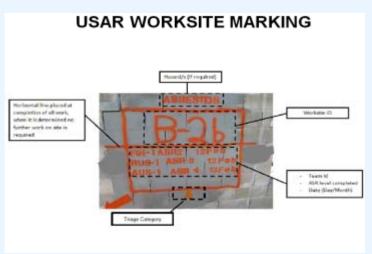
Period	1	2	3	4		5	6	7	8	9		10	11	12	
Day/Time	0800-0850	0855-0945	1000-1050	1055-1145		1250-1340	1345-1435	1450-1540	1545-1635	1640-1730		1830-1920	1925-2015	2020-2110	
MONDAY 16/05/2016	Methods of Shoring (Theory)  Methods of Shoring				Methods of Shoring (Dead and Raker Shores)						Free and Easy				
Location	MTV MTV			1	MTV USAR Instr					'					
Instructor	USAR Instr			1						1					
TUESDAY 17/05/2016	Methods of Shoring (Flying Shores)					Methods of Shoring (Window and Door Shores)  MTV  USAR Instr						Free and Easy			
Location	MTV										1				
Instructor	USAR Instr										1				
WEDNESDAY 18/05/2016	Exercise Adversity					Exercise Adversity					DINNER	Exercise Adversity			
Location	CDA				1	CDA/MTV USAR Instr					1		MTV		
Instructor	USAR Instr				]						]				
THURSDAY 19/05/2016	Exercise Adversity					Equ	ipment Maintena	ance	Course Deb Evalu				Free and Easy		
Location	CDA					CDA USAR Instr									
Instructor	USAR Instr										Highlights of Week 2 - Shoring				
FRIDAY 20/05/2016	Course Closing					Free and Easy									
Location	Visitor Lounge										_	Exerci	se Adve	ersity	
Instructor		USA	R Instr				<u> </u>		<u> </u>			LACICI	JC AUV	Sisity	



## Week 1 Highlights



Lecture on UN INSARAG System



**UN Marking System** 



Casualty Management





## Week 1 Highlights (Cont'n)



**DELSAR Listening Device** 



Fibre Optic Scope



Search Canine





## Week 1 Highlights (Cont'n)



**Roping System** 



One man rescue

#### **Height and Depth Rescue**



Traversing







## Week 1 Highlights (Cont'n)







Cutting

Lifting

**Breaking** 





## **Confined Space**



Preparation for entry



Adverse environment



Movement restricted





## Week 2 Highlights



**Fabrication** 







Installation





## **Ex Adversity**



**Casualty Management** 

#### **36-hrs Final Ex**



Conducting breaching to gain access



Height rescue operations





#### TO CONCLUDE...

- Course content follows the United Nation International Search and Rescue Advisory Group (UN INSARAG) Guideline.
- Course also provided a platform for networking and exchange of best practices





### For more Info on IUSAR course.....





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## **Thank You**

