

URBAN BREACHER - PROGRAM OF INSTRUCTION

v Version 2015 - WORKING

SECTION I - COURSE DESCRIPTIVE DATA

1. COURSE TITLE: URBAN BREACHER
2. LOCATION: Marine Corps Engineer School
PSC Box 20069
Camp Lejeune, North Carolina 28542-0069.
3. COURSE ID: M03KA92
4. OTHER SERVICE COURSE NUMBER: N/A
5. MILITARY ARTICLES AND SERVICE LIST NUMBER (MASL): P121025
6. PURPOSE: To provide focused instruction on assured mobility techniques for mechanical, explosive and ballistic breaching in an urban environment.
7. SCOPE: This is a high-risk training (HRT) course consisting of urban breaching techniques. Instruction includes: protective measures; calculation of net explosive weight; breacher's logbook; breacher's brief; foreign construction standards; explosive theory; and explosive, mechanical and ballistic breaching fundamentals.
8. LENGTH (PEACETIME): 10 Training Days
9. CURRICULUM BREAKDOWN (PEACETIME):
 - 66.00 Academic
 - 4.50 Demonstration
 - 6.00 Field Exercise
 - 14.00 Informal Lecture
 - 31.50 Practical Application
 - 8.00 Performance Examination
 - 2.00 Written Examination
 - 22.50 Administrative
 - 2.50 Administrative and base check in
 - 1.00 Check Out
 - 1.00 Critique
 - 1.00 Graduation
 - 3.00 Orientation
 - 4.50 Personal Hygiene
 - 4.50 Physical Training
 - 5.00 Range Maintenance
10. LENGTH (MOBILIZATION): 10 Training Days

Mobilization Note: Due to the content of the course and the instructional strategy, there is no difference in the academic hours planned in event of mobilization. MCES will teach the same course content for the existing course during mobilization. This course is high risk and with the amount of instructional media and live fire exercises, no reduction in training days or prolonging daily training hours is recommended.
11. CURRICULUM BREAKDOWN (MOBILIZATION): Same as PeaceTime
12. MAXIMUM CLASS CAPACITY: 30
13. OPTIMUM CLASS CAPACITY: 30



URBAN BREACHER - PROGRAM OF INSTRUCTION

v Version 2015 - WORKING

SECTION I - COURSE DESCRIPTIVE DATA

14. MINIMUM CLASS CAPACITY: 10
15. CLASS FREQUENCY: 4
16. TARGET POPULATION DESCRIPTION/PREREQUISITES:
- Target Population Description: The target audience for this course is personnel who have the mission of conducting and supervising explosive, mechanical and ballistic breaching into urban structures. Prospective students have a basic knowledge of military explosives/demolitions with varying degrees of proficiency depending on rank, MOS and Operating Force exposure. Prospective students are assumed to possess at least a high school diploma or GED equivalence, providing a suitable background for the mathematical calculations required.
- Prerequisites: Rank: CPL
MOS: 1302, 1371, 0302, 0369, 0321, 0351, 0372
- a. Marine Corps personnel must have one of the following MOSs to attend the course: 1302, 1371, 0302, 0369, 0321, 0351 or 0372 personnel. Marines must be in a full-duty status, rank requirement of Corporal and above who have the mission of conducting and/or supervising explosive, mechanical and ballistic breaching into urban structures.  The high risk nature of the training received in this course  requires increased oversight on the enrollment of qualified students to attend this course.
- b. International military students (IMS) must have an ECL equivalency score of 70 or above.
17. MOS RECEIVED: NONE
18. POI TIER LEVEL:
19. TAD/TDY FUNDING:
20. REPORTING INSTRUCTIONS:
- a. GOVERNMENT MESSING AND BILLETING ARE AVAILABLE. (Call 910-440-7194 for availability of on-base billeting)
- b. Students report to Commanding Officer, Marine Corps Engineer School, Courthouse Bay, Camp Lejeune, North Carolina.
- c. During working hours, report to Building BB-12 (MCES Personnel Office), second building on the right (water side along Ellen Path) after turning left at the "Y" at the end of Horn Road (Marines Road).
- d. After working hours, report to the AOOD at Building BB-28 (Headquarters, MCES), first building on the left after entering Courthouse Bay (at the intersection of Horn Road and Command Drive).
- e. All students will report in with ~~SRB~~, Medical Record, Dental Record, ~~and Command Screening Checklist (signed) on or before reporting date. Command Screening Checklist can be obtained online at MCES website under unit module (CEIC "For Students" tab).~~
- f. Students will report and graduate in ~~seasonal utilities MARPAT/BDU uniform~~ 
21. INSTRUCTOR STAFFING REQUIREMENTS: See Appendix A for Instructor Computation Worksheet.

URBAN BREACHER - PROGRAM OF INSTRUCTION

v Version 2015 - WORKING

SECTION I - COURSE DESCRIPTIVE DATA

Total Instructor Structure Authorized 4 Proposed Instructor Structure Increase 0

BIC	GRADE	RANK	BMOS	PMOS	BILLET DESCRIPTION	FILLED	VACANT
	E7	GYSGT		1371	Instructor	1	0
	E6	SSGT		1371	Instructor	1	0
	E6	SSGT		1371	Instructor	1	0
	E6	SSGT		1371	Instructor	1	0

22. SCHOOL OVERHEAD REQUIREMENTS:Total Overhead Structure Authorized 12 Proposed Overhead Structure Increase 0

BIC	GRADE	RANK	BMOS	PMOS	BILLET DESCRIPTION	FILLED	VACANT
	E4	PO3		8404	Corpsman	0	1
Comment: Currently, MCES utilizes support from HM1 Caron Clinic. Corpsman is not on MS3050 Table of Organization.							
	E3	LCPL		0111	Personnel Clerk	1	0
	G11	GS-11		1750	Instructional Systems Specialist	1	0
	E3	LCPL		2311	Ammo Technician	1	0
	O4	MAJ		1302	Company Officer	1	0
	E8	1STSGT		8999	Co 1stSgt	1	0
	E8	MSGT		1371	Course Programmer	1	0
	E7	GYSGT		1371	Academic Analyst	1	0
	G11	GS-11		1712	Training Specialist	1	0
	E9	MGYSGT		1371	Academic Chief	1	0
	E4	CPL		2311	Ammo Tech	1	0
	G07	GS-07		0301	International Military Student Spec-OA	1	0
	G07	GS-07		1702	Education Specialist	1	0

23. TRAINING/EDUCATION SUPPORT REQUIREMENTS:

The following material requirements are identified for this course, costs are estimates:

Open Purchase Items, Unit Funded

NSN	TAMCN	REQ'D	ON HAND	SHORT	UNIT PRICE	TOTAL COST	DEFIC'Y COST
Nomenclature: AURAL PROTECTORS, DISPOSABLE							
		1	1	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: BAG, IV FLUID, 1000ML							
		30	30	0	\$0.00	\$0.00	\$0.00

Interim Solution: Migrated for POIF



URBAN BREACHER - PROGRAM OF INSTRUCTION

v Version 2015 - WORKING

SECTION I - COURSE DESCRIPTIVE DATA

Open Purchase Items, Unit Funded

NSN	TAMCN	REQ'D	ON HAND	SHORT	UNIT PRICE	TOTAL COST	DEFIC'Y COST
Nomenclature: BALLISTIC GLASSES							
		30	30	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: BLOCK, CONCRETE, MASONRY 8" X 8" X 16"							
		78	78	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: CALCULATOR, SCIENTIFIC							
		30	30	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: CD, REWRITEABLE							
		3	3	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: CLAY, POTTERY TYPE							
		45	45	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: CONCRETE WALL TARGET							
		1	1	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: CONNECTOR, DETONATING CORD							
		60	60	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: CONNECTOR, FENCE, CHAIN LINK TYPE							
		6	6	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: CORD, PARACHUTE 550							
		1	1	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: DOOR JAMB, BTI							
		15	15	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							



URBAN BREACHER - PROGRAM OF INSTRUCTION

v Version 2015 - WORKING

SECTION I - COURSE DESCRIPTIVE DATA

Open Purchase Items, Unit Funded

NSN	TAMCN	REQ'D	ON HAND	SHORT	UNIT PRICE	TOTAL COST	DEFIC'Y COST
Nomenclature: DOOR KNOBS							
		80	80	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: DOOR, BALLISTIC, BTI							
		2	2	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: DOOR, PRY, BTI							
		2	2	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: DOOR, RAM TYPE, BTI							
		2	2	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: EXTERIOR DOOR, METAL							
		12	12	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: EXTERIOR DOOR, SECURITY							
		8	8	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: EXTERIOR DOOR, SOLID CORE, WOOD							
		12	12	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: FENCE, CHAIN LINK, 8' X 6'							
		1	1	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: HINGE, DOOR							
		24	24	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: INTERIOR DOOR							
		8	8	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							



URBAN BREACHER - PROGRAM OF INSTRUCTION

v Version 2015 - WORKING

SECTION I - COURSE DESCRIPTIVE DATA

Open Purchase Items, Unit Funded

NSN	TAMCN	REQ'D	ON HAND	SHORT	UNIT PRICE	TOTAL COST	DEFIC'Y COST
Nomenclature: LOCK, DEADBOLT							
		30	30	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: LOCKING MECHANISM, BTI, BALLISTIC							
		30	30	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: LOCKING MECHANISM, BTI, MECH BRCH							
		300	300	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: LUMBER, 2" X 4" X 8'							
		24	24	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: MORTAR MIX, TYPE S							
		4	4	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: NAILS, 16 D GALVO							
		1	1	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: NAILS, ROOFING 1"							
		1	1	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: PASTE, HYDRAJELL, BREACHER'S							
		1	1	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: PLYWOOD, 1/2" X 4' X 8'							
		12	12	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: PLYWOOD, 3/4" X 4' X 8'							
		4	4	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							



URBAN BREACHER - PROGRAM OF INSTRUCTION

v Version 2015 - WORKING

SECTION I - COURSE DESCRIPTIVE DATA

Open Purchase Items, Unit Funded

NSN	TAMCN	REQ'D	ON HAND	SHORT	UNIT PRICE	TOTAL COST	DEFIC'Y COST
Nomenclature: POLES, FENCE, 8'							
		2	2	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: ROOFING FELT, 15 LB							
		1	1	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: RUBBER, GOODYEAR 330B							
		1	1	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: SHINGLES, ROOFING 3-TAB							
		4	4	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: SHOTGUN, MOSSBURG 500 A2							
		12	12	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: TAMCN B04071 KIT, DEMOLITIONS SQUAD							
		2	2	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: TAMCN B2370, KIT, MASONRY (FECTK)							
		1	1	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: TAMCN C3215, HELMET, KEVLAR							
		30	30	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: TAMCN C3494, BODY ARMOR, FRAGMENTATION							
		30	30	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: TAMCN C41442EP, KIT ASSAULT BREACHERS							
		2	2	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							



URBAN BREACHER - PROGRAM OF INSTRUCTION

v Version 2015 - WORKING

SECTION I - COURSE DESCRIPTIVE DATA

Open Purchase Items, Unit Funded

NSN	TAMCN	REQ'D	ON HAND	SHORT	UNIT PRICE	TOTAL COST	DEFIC'Y COST
Nomenclature: TAMCN D00227K, HMMWV, M1152							
		1	1	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: TAPE, DOUBLE-SIDED							
		8	8	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: TAPE, DUCT							
		10	10	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: TAPE, ELECTRICAL							
		14	14	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: TARGET, SILHOUETTE, E-TYPE							
		4	4	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: TOOL KIT, CARPENTER							
		1	1	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: TREBLE HOOKS							
		30	30	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: TUBING, SURGICAL							
		150	150	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: WINDOWS							
		12	12	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							
Nomenclature: ZIP TIES							
		100	100	0	\$0.00	\$0.00	\$0.00
Interim Solution: Migrated for POIF							



URBAN BREACHER - PROGRAM OF INSTRUCTION

v Version 2015 - WORKING

SECTION I - COURSE DESCRIPTIVE DATA

Open Purchase Items, Unit Funded Total Cost:	\$0.00	\$0.00
--	--------	--------

The following chart depicts a summary of material costs for this course. Costs are estimates:

	TOTAL COST	DEFICIENCY COST
Open Purchase Items, Unit Funded	\$0.00	\$0.00
	<u>\$0.00</u>	<u>\$0.00</u>

The following chart depicts the class V expenditures for one iteration of the course.

TASK		EXPENDED UNITS PER STUDENT	EXPENDED UNITS FOR SUPPORT
DODIC: A011	NOMENCLATURE	Ctg, 12 Gauge #00 Buckshot M162	(\$0.62 EA)
1371-MOBL-2016b		21.000 EA	0.000 EA
	DODIC Total:	21.000	0.000
DODIC: A023	NOMENCLATURE	Ctg, 12 Gauge 1 Ounce Slug Commercial	(\$0.63 EA)
1371-MOBL-2016c		12.000 EA	0.000 EA
	DODIC Total:	12.000	0.000
DODIC: AA54	NOMENCLATURE	Ctg, 12 Gauge, Breaching, M1030	(\$2.43 EA)
1371-MOBL-2013		24.000 EA	0.000 EA
	DODIC Total:	24.000	0.000
DODIC: AX14	NOMENCLATURE	Primer, Percussion 12 Gauge W209	(\$0.04 EA)
1371-DEMO-2007		0.000 EA	25.000 EA
	DODIC Total:	0.000	25.000
DODIC: G940	NOMENCLATURE	Gren, Hand Green Smoke M18	(\$44.32 EA)
1371-DEMO-2005		0.000 EA	4.000 EA
	DODIC Total:	0.000	4.000
DODIC: G945	NOMENCLATURE	Gren, Hand Yellow Smoke M18	(\$39.19 EA)
1371-DEMO-2005		0.000 EA	4.000 EA
	DODIC Total:	0.000	4.000
DODIC: G982	NOMENCLATURE	Gren, Hand Smoke TA M83	(\$26.67 EA)
1371-DEMO-2003		0.000 EA	0.000 EA
	DODIC Total:	0.000	0.000
DODIC: M023	NOMENCLATURE	Chg, Demo Block M112 11/4 pound C4	(\$34.82 EA)
1371-DEMO-2014		0.000 EA	12.000 EA
1371-DEMO-2013		0.000 EA	12.000 EA



URBAN BREACHER - PROGRAM OF INSTRUCTION

v Version 2015 - WORKING

SECTION I - COURSE DESCRIPTIVE DATA

The following chart depicts the class V expenditures for one iteration of the course.

TASK		EXPENDED UNITS PER STUDENT	EXPENDED UNITS FOR SUPPORT
	DODIC Total:	0.000	24.000
DODIC: M456	NOMENCLATURE Cord, Detonating PETN Type I Class E		(\$0.17 EA)
1371-DEMO-2012		5.000 EA	0.000 EA
1371-DEMO-2007		7.600 EA	3.000 EA
1371-DEMO-2009		2.400 EA	0.000 EA
1371-DEMO-2014		0.500 EA	34.000 EA
1371-DEMO-2013		4.400 EA	0.000 EA
1371-DEMO-2008		1.200 EA	0.000 EA
1371-DEMO-2011		3.800 EA	0.000 EA
1371-DEMO-2010		12.500 EA	0.000 EA
	DODIC Total:	37.400	37.000
DODIC: M468	NOMENCLATURE CORD, DET TYPE-1 (INERT) 2 ROLLS		
1371-DEMO-2012		0.000 EA	323.250 EA
1371-DEMO-2013		0.000 EA	198.000 EA
1371-DEMO-2007		0.000 EA	305.250 EA
1371-DEMO-2014		0.000 EA	245.250 EA
1371-DEMO-2008		0.000 EA	216.000 EA
1371-DEMO-2009		0.000 EA	515.250 EA
1371-DEMO-2011		0.000 EA	269.250 EA
1371-DEMO-2010		0.000 EA	741.250 EA
	DODIC Total:	0.000	2,813.500
DODIC: ML03	NOMENCLATURE Firing Device, Demo MultiPurpose M142		(\$4.68 EA)
1371-DEMO-2007		0.000 EA	2.000 EA
	DODIC Total:	0.000	2.000
DODIC: MN08	NOMENCLATURE Igniter, Time Blasting Fuse with Shock Tube Capability M81		(\$5.62 EA)
1371-DEMO-2011		0.000 EA	10.000 EA
1371-DEMO-2014		0.000 EA	6.000 EA
1371-DEMO-2013		0.000 EA	6.000 EA
1371-DEMO-2010		0.000 EA	10.000 EA
1371-DEMO-2012		0.000 EA	10.000 EA
1371-DEMO-2007		0.633 EA	6.000 EA
1371-DEMO-2009		0.000 EA	10.000 EA
1371-DEMO-2008		0.000 EA	10.000 EA
	DODIC Total:	0.633	68.000
DODIC: MN14	NOMENCLATURE Firing Device, Dual Mode MK54		(\$368.53 EA)
1371-DEMO-2007		0.000 EA	4.000 EA



URBAN BREACHER - PROGRAM OF INSTRUCTION

v Version 2015 - WORKING

SECTION I - COURSE DESCRIPTIVE DATA

The following chart depicts the class V expenditures for one iteration of the course.

TASK	EXPENDED UNITS PER STUDENT	EXPENDED UNITS FOR SUPPORT
DODIC Total:	0.000	4.000
DODIC: MN52		
NOMENCLATURE Detonator, Percussion, NonElectric MK154 Mod 0		(\$45.66 EA)
1371-DEMO-2014	0.000 EA	6.000 EA
1371-DEMO-2007	0.233 EA	6.000 EA
1371-DEMO-2009	0.000 EA	9.000 EA
1371-DEMO-2012	0.000 EA	9.000 EA
1371-DEMO-2010	0.000 EA	9.000 EA
DODIC Total:	0.233	39.000

The following chart depicts class V annual costs; costs are estimates (Ammunition is budgeted for at the optimum capacity).

DODIC	NOMENCLATURE	MINIMUM CLASS CAPACITY	OPTIMUM CLASS CAPACITY	MAXIMUM CLASS CAPACITY
A011	Ctg, 12 Gauge #00 Buckshot M162 Cost: \$0.62 EA Total ammunition reqmt:	\$520.80 840	\$1,562.40 2520	\$1,562.40 2520
A023	Ctg, 12 Gauge 1 Ounce Slug Commercial Cost: \$0.63 EA Total ammunition reqmt:	\$302.40 480	\$907.20 1440	\$907.20 1440
AA54	Ctg, 12 Gauge, Breaching, M1030 Cost: \$2.43 EA Total ammunition reqmt:	\$2,332.80 960	\$6,998.40 2880	\$6,998.40 2880
AX14	Primer, Percussion 12 Gauge W209 Cost: \$0.04 EA Total ammunition reqmt:	\$0.00 0	\$0.00 0	\$0.00 0
G940	Gren, Hand Green Smoke M18 Cost: \$44.32 EA Total ammunition reqmt:	\$0.00 0	\$0.00 0	\$0.00 0
G945	Gren, Hand Yellow Smoke M18 Cost: \$39.19 EA Total ammunition reqmt:	\$0.00 0	\$0.00 0	\$0.00 0
G982	Gren, Hand Smoke TA M83 Cost: \$26.67 EA Total ammunition reqmt:	\$0.00 0	\$0.00 0	\$0.00 0
M023	Chg, Demo Block M112 11/4 pound C4 Cost: \$34.82 EA Total ammunition reqmt:	\$0.00 0	\$0.00 0	\$0.00 0
M456	Cord, Detonating PETN Type I Class E Cost: \$0.17 EA Total ammunition reqmt:	\$254.32 1496	\$762.96 4488	\$762.96 4488
M468	CORD, DET TYPE-1 (INERT) 2 ROLLS Total ammunition reqmt:	0	0	0
ML03	Firing Device, Demo MultiPurpose M142 Cost: \$4.68 EA Total ammunition reqmt:	\$0.00 0	\$0.00 0	\$0.00 0
MN08	Igniter, Time Blasting Fuse with Shock Tube	\$142.30	\$426.90	\$426.90



URBAN BREACHER - PROGRAM OF INSTRUCTION

v Version 2015 - WORKING

SECTION I - COURSE DESCRIPTIVE DATA

	Capability M81			
	Cost: \$5.62 EA	Total ammunition reqmt:	25.32	75.96
MN14	Firing Device, Dual Mode MK54		\$0.00	\$0.00
	Cost: \$368.53 EA	Total ammunition reqmt:	0	0
MN52	Detonator, Percussion, NonElectric MK154 Mod 0		\$425.55	\$1,276.65
	Cost: \$45.66 EA	Total ammunition reqmt:	9.32	27.96
TOTAL			\$3,978.17	\$11,934.51

The following chart depicts operation and maintenance costs (OMMC) for this course; costs are estimates:

	ANNUAL COST
Civilian Labor Cost	\$0.00
Consumable (Material) Cost	\$0.00
Contracts Cost	\$0.00
ICE/ICF Cost	\$0.00
Interservice Cost	\$0.00
Fuel (POL) Cost	\$0.00
Non PMC Equipment Cost	\$0.00
Parts (Maintenance/Repair) Cost	\$0.00
Printing (Reproduction) Cost	\$0.00
TAD (Instructor/Support Staff) Cost	\$0.00
	\$0.00

24. TASK LIST: See Appendix B.

CDD NOTES:

- a. Under item 23, Training and Education Support (Material Requirements), all material requirements listed are for one iteration of the course.
- b. Under item 23, Training and Education Support Requirements (Class V), DODIC M456 and M468 are listed as a unit of issue "each". This is a fault in the MCTIMS ammunition data base. The correct unit of issue should read "feet" vice "each". DODIC M468 CORD, DET TYPE-1 (INERT) 2 ROLLS annotated in this POI is for training purposes during practical application/performance examination only. MCES has sufficient quantity on-hand and re-uses this DODIC.
- c. The CDD reflects 66.0 academic hours. MCES calculates training days by dividing 7.0 academic hours per day which equates to 9.42 = 10 training days.
- d. Course structure change from 2010 POI due to increase of student throughput from 105 to 125 per FY14 TIP. Course originally taught as ITRO (w/Army) at 210 student throughput from 2004-2012.
- e. Interservice Training Category: N/A



URBAN BREACHER - PROGRAM OF INSTRUCTION

v Version 2015 - WORKING

SECTION I - COURSE DESCRIPTIVE DATA

APPENDIX A - INSTRUCTOR COMPUTATION WORKSHEET (LOCKSTEP)

SECTION I COURSE DATA

COURSE: M03KA92 URBAN BREACHER

LOCATION: Marine Corps Engineer School
PSC Box 20069
Camp Lejeune, North Carolina 28542-0069.

Programmed Annual Input FY(16):	120	Length (avg cal days):	14
Programmed Number of Classes/Year:	4	Length (training days):	10
		Syllabus Hours:	66

SECTION II CURRICULUM BREAKOUT

(A) TRAINING SITUATION	(B) MAX CLASS SIZE	(C) MAX RATIO (X:1)	(D) INST REQ	(E) SYLLABUS HOURS	(F) INST MANHOURS
Demonstration	30	/	10 =	3.00 x 4.00 =	12.00
Demonstration	30	/	30 =	1.00 x 0.50 =	0.50
Field Exercise	30	/	5 =	6.00 x 6.00 =	36.00
Informal Lecture	30	/	15 =	2.00 x 4.50 =	9.00
Informal Lecture	30	/	30 =	1.00 x 9.50 =	9.50
Performance Examination	30	/	6 =	5.00 x 8.00 =	40.00
Practical Application	30	/	6 =	5.00 x 21.00 =	105.00
Practical Application	30	/	10 =	3.00 x 8.50 =	25.50
Practical Application	30	/	15 =	2.00 x 2.00 =	4.00
Written Examination	30	/	30 =	1.00 x 2.00 =	2.00
TOTAL INSTRUCTOR MANHOURS PER CLASS (G):					243.50



URBAN BREACHER - PROGRAM OF INSTRUCTION

v Version 2015 - WORKING

SECTION I - COURSE DESCRIPTIVE DATA

APPENDIX A - INSTRUCTOR COMPUTATION WORKSHEET (LOCKSTEP)

SECTION III INSTRUCTOR COMPUTATION

TOTAL INSTRUCTOR MANHOURS PER CLASS	X	PROGRAMMED NUMBER OF CLASSES	=	ANNUAL INSTRUCTOR CONTACT HOURS	<u>974</u>
ANNUAL INSTRUCTOR CONTACT HOURS	X	1.26	=	ANNUAL INSTRUCTOR HOURS	<u>1227.24</u>
ANNUAL INSTRUCTOR HOURS	/	12	=	MONTHLY INSTRUCTOR HOURS	<u>102.27</u>
MONTHLY INSTRUCTOR HOURS	/	145	=	INSTRUCTORS REQUIRED	<u>0.705 = 1</u>

SECTION IV INSTRUCTOR TYPE USAGE TIME

INSTRUCTOR TYPE (BMOS/RANK)	ACADEMIC MANHOURS	ADMIN MANHOURS	TOTAL PER CLASS	ANNUAL MANHOURS	% USED	# REQ'D
TOTAL	0	0.00	0.00	0.00		

INSTRUCTOR TYPE (BMOS/RANK)	AUTH STRUCTURE	# REQ	DELTA
--------------------------------	-------------------	-------	-------

ICW NOTES: Even though the Instructor Computation Worksheet only calls for one instructor to prosecute this POI, due to the high risk nature of this training and the amount of live fire demolition and shotgun training, a minimum of four instructors is required to safely execute the bulk of the training hours. In addition to primary and assistant instructors who are vital to the safe execution of training, each live-fire evolution requires an additional 2 instructors - 1 to serve as the Range Safety Officer and 1 to serve as the Officer in Charge of the live-fire shoot. At 4 total instructors, MCES will meet the minimum requirement to conduct live-fire training in accordance with established Operational Risk Assessment Worksheets (ORAW) and Base Range SOP. The additional Instructor Staffing is reflected in CDD Sect. #21.



URBAN BREACHER - PROGRAM OF INSTRUCTION

v Version 2015 - WORKING

SECTION I - COURSE DESCRIPTIVE DATA

APPENDIX B - TASKLIST

DUTY: 1371-DEMO Demolitions, Munitions, and Specialized Demolitions

TASKS: 1371-DEMO-2003	Maintain a Breacher's Logbook
1371-DEMO-2004	Compute the Net Explosive Weight (NEW)
1371-DEMO-2005	Take appropriate protective measures
1371-DEMO-2006	Identify building construction
1371-DEMO-2007	Employ a doughnut charge
1371-DEMO-2008	Employ a window charge
1371-DEMO-2009	Employ a water charge
1371-DEMO-2010	Employ an oval charge
1371-DEMO-2011	Employ a Uli knot slider charge
1371-DEMO-2012	Employ a detonating cord linear charge
1371-DEMO-2013	Employ a concrete charge
1371-DEMO-2014	Employ a fence charge

DUTY: 1371-MOBL Mobility

TASKS: 1371-MOBL-2013	Engage stationary targets with the shotgun
1371-MOBL-2014	Perform select shot drills with the shotgun
1371-MOBL-2016	Conduct ballistic breach
1371-MOBL-2019	Perform manual breaching

TASK LIST NOTES:

- a. Enabling Learning Objectives (a) through (i) for Terminal Learning Objective 1371-DEMO-2007 are identical for TLOs 1371-DEMO-2008/2009/2010/2011/2012/2013/2014. This note serves as ELOs for the above mentioned TLOs to alleviate a 15 page concept card for class C-UBA08 "Urban Breaching charges. Revised and entered by Mr. Barry Autry, CEIC Training Specialist on 6 February 2014.



URBAN BREACHER- PROGRAM OF INSTRUCTION
v Version 2015 - WORKING
SECTION V - STUDENT PERFORMANCE EVALUATION

1. SCOPE. Competency learning is based on the premise that learning can be evaluated by means of a criterion measure. The measurement device must duplicate the learning objective that it is measuring. Performance evaluations will be used to measure those objectives which duplicate job requirements. All other learning objectives will be measured by objective evaluation of the student's knowledge.

Students are evaluated on each lesson's learning objectives through written examinations concerning the subject material and formal observation of student performance during performance evaluations.

a. Written Evaluation. Knowledge-based learning objectives are evaluated by written test items. Students are required to attain a score of 80% or better on all written evaluations unless otherwise specified.

b. Practical Application. Students will be informally evaluated and provided feedback by instructors through observation of student performance during all practical application and performance exercises. Instructors will provide additional instruction if needed.

c. Performance Evaluation. Performance testing covering all performance-based learning objectives conducted throughout the course. Students are required to master all performance-based evaluations to graduate the course. Performance-based evaluation checklists will be adhered to for master/non-master based on learning objectives.

d. Examination Violations. Any student caught cheating or violating any element while conducting written or performance examinations will be dropped from the course and returned back to the parent unit ~~with appropriate proficiency/conduct remarks or special fitness report comments.~~

e. Examination Failures. Any student who has failed an examination will be counseled and retested on the designated lesson. Failing the retest will result in student being counseled by the Academic Chief, ~~re-taught the lesson and retested. Students failing any lesson examination three times will be dropped from the course.~~  Students must pass all tests to graduate the course with an average score of 80% or better.

f. Commanding Officer or Academic Officer/Chief retain discretion over enforcement of the above procedures.

