



17833

Combat Pistol Qualification Course (CPQC)



RANGE DESIGN GUIDE



RANGE AND TRAINING LAND PROGRAM – MANDATORY CENTER OF EXPERTISE

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General

This document contains information specific to a Combat Pistol Qualification Course, FCC 17822 (CPQC). It describes the design and construction information that is specific to this range and refers to other sections of the RDG for general range information. Use both the specific information in this section and the general sections referenced together for a complete, useable range.

Purpose

The CPQC meets soldiers training and qualification requirements with combat pistols and revolvers. This range is used to train and test soldiers on the skills necessary to identify, engage, and hit stationary infantry targets. All targets are fully automated, and the event specific target scenario is computer driven and scored. Note: Military Police Firearms (MPF) is no longer done on the CPQC, and those targets have been removed from the standard layout.

Primary Feature

The primary features of the ranges are divided into two categories: the Range and the Range Operations and Control Area (ROCA).

Range

The following drawings show the standard layouts. They are included at the end of this document.

- [PQC-C-01](#)
- [PQC-E-01](#)

Layout

Use the standard CPQC layout referenced above as the basis for the range.

The standard has 15, 9M wide lanes, each with six targets. Targets are located between 10 and 31 meters from the firing line. The distance each target is from the firing line is standard and fixed, the left/right dispersion can be varied. The standard design lays out the targets to minimize the number of times shots through a target hit another target farther downrange. The layout also minimizes berm overlap. Each lane has a boot for placement of a magazine stand at the firing line and boots at 10M for group/zero exercise. There are walking trails that extend 8 meters downrange.

The table below provides the target count.

NUMBER	FEATURE	RDG SECTION
90	Narrow-Stationary Infantry Target	SIT
15	Zero Target Frame	
2	Limit Markers	
15	Lane markers	

Firing Line

The baseline is the start fire line for the CPQC. Provide a 1-Meter-wide gravel walk path that starts at the baseline and extends 8 Meters downrange. The path should be well drained with a maximum recommended slope of 2-3%. Provide a magazine stand at the baseline.

Down Range

The range has 15 lanes, each 9 meters wide. The six targets are placed at 10, 12.5, 16.5, 23, 27, and 31 meters from the baseline. The targets can be moved left or right within the lane but must maintain the distance from the baseline. Use the Narrow SIT with most of the electrical equipment placed behind the baseline, refer to the electrical section for details.

Line of Sight

Refer to the [Line of Sight](#) (LoS) section of the RDG for LoS requirements, procedures, and submittal requirements.

The range is lane-based, requiring line of sight along the firing path to each target within that lane. The limit markers also need to be visible from each firing position.

The control tower must have an unobstructed view of the entire firing line from the baseline to the zero targets.

Targetry

The CPQC uses fully automated targets with event-specific, computer-driven target scenarios and scoring. The targetry computer in the Control Tower controls the targets through the target data network. The computer captures the scoring data, which is then available to the unit for after action review (AAR). The range is wired slightly differently from typical, refer to the Electrical Range Design Section of the RDG for further information.

ROCA

Refer to the ROCA section of the RDG for general design information for each specific structure. Base the ROCA for the MPMG on the Small Arms ROCA.

The Control Tower must have an unrestricted view of the firing line. Range operators in the tower should be able to see most of the target area. Elevate the tower sufficiently so the view is not obstructed.

NAME	SIZE	UoM	RDG SECTION
Control Tower – Small Arms	1	EA	Control Towers
Operations/Storage Building, Standard	800	SF	Operations and Storage Buildings
Classroom Facility	800	SF	Classroom and AAR Facilities
Latrine: Vault (Latrine: Water)	330 (550)	SF	Latrines
Bleacher Enclosure	1	EA	Bleacher Enclosure

Covered Mess	800	SF	Covered Mess
Ammunition Breakdown Building	185	SF	Ammunition Breakdown Building

Requirement Documents

Refer to Training Circular TC 25-8, Training Ranges, for additional information and references to the FMs, ARTEPs, TCs, etc. that describe and require the training on this type of range. The latest TC 25-8 is available at Army Knowledge Online (www.us.army.mil) and the General Dennis J. Reimer Training and Doctrine Digital Library (www.train.army.mil).

Additional Information

None

