

Statement of Work

Training Battery Assembly f/ Chemical Agent Monitor (CAM)

C.1.0 Scope

The contractor shall manufacture the Training Battery Assembly in strict compliance with Performance Purchase Description EA-PRF-2073.

C.2.0 Applicable Documents

EA-PRF-2073
5-15-13810 (reference only)
5-15-17015
442-438
442-065
MIL-STD-129
MIL-STD-461
MIL-STD-810E
MIL-STD-2073-1
ANSI/ASQC Q90 (ISO 9000)
ANSI/ASQC Q91 (ISO 9001)
ANSI/ASQC Q94 (ISO 9004)
MIL-HDBK-304
ASTM D 4919
EA-C-1793
MIL-STD-973 (reference only)

C.3.0 Requirements

The contractor, as an independent contractor and not as an agent of the Government, shall provide the necessary services, personnel, labor, facilities, materials, supplies, and equipment (except those specifically designated as Government furnished equipment/material) to perform the following:

C.3.1 Manufacturing

C.3.1.1 Training Battery Assembly. The contractor shall manufacture Training Battery Assemblies (including First Article) in strict compliance with Performance Specification EA-PRF-2073 and all of the documents cited therein, respectively. The contractor shall manufacture all items using the same manufacturing methods, materials, tooling, test equipment, test procedures and facilities planned for use in production.

C.3.1.2 Government Furnished Equipment. The Government shall furnish the following equipment:

1. 1. Chemical Agent Monitor mock-up.
2. Protective gloves:
 - a. NSN 8415-01-138-2497 for size small.
 - b. NSN 8415-01-138-2498 for size medium.
 - c. NSN 8415-01-138-2499 for size large.
 - d. NSN 8415-01-138-2500 for size X-large.
4. Technical Manual (TM) 3-6665-331-23&P.
5. TM 3-6665-331-10

C.3.2 Engineering Management

C.3.2.1 Engineering Data and Specifications. The contractor shall establish, maintain, and make available for Government review at the contractor's facility all engineering drawings, parts lists, product specifications, manufacturing process procedures, unique quality control procedures, packaging instructions, and lists of suppliers and manufacturers used by the contractor to manufacture the Training Battery Assembly.

C.3.2.2 Final TDP Delivery. The contractor shall copy and submit all engineering drawings, parts lists, product specifications, manufacturing process procedures, unique quality control procedures, packaging instructions, and lists of suppliers and manufacturers used by the contractor to manufacture the Training Battery Assembly.

C.3.2.3 Configuration Management.

C.3.2.3.1 Configuration Management Plan (CMP). The contractor shall implement and maintain a configuration management plan throughout the life of the contract. MIL-STD-973 contains relevant configuration management information that may be useful to the contractor. The contractor shall obtain the written approval of the PCO prior to the implementation of the CMP and any subsequent changes.

C.3.2.3.2 Requests for Deviation, Requests for Waiver, Engineering Change Proposal and Notice of Revision.

C.3.2.3.2.1 The contractor shall prepare and submit Requests for Deviation and Requests for Waiver for any performance requirements.

C.3.2.3.2.2 The Government will maintain formal configuration control of all performance specifications and configuration drawings referenced in Section C.3.1.

C.3.2.3.2.3 All engineering changes against items under Government Configuration Control shall be documented on an engineering change proposal and notice of revision, in Government or contractor format, and submitted to the Government for approval in accordance with the approved CMP.

C.3.2.3.3 Configuration Control Board (CCB).

C.3.2.3.3.1 The contractor shall establish and implement the use of a CCB to review engineering changes and recommend appropriate action prior to implementation.

C.3.2.3.3.2 The contractor shall provide the Government at least ten (10) days notice prior to convening the CCB so that if the Government chooses, a representative may participate. The contractor shall provide the Government with the engineering change proposal and a notice of revision at least ten (10) days prior to convening the CCB.

C.3.2.3.3.3 If the contractor generates a change against an item that is under Government Configuration Control, the contractor shall provide an engineering change proposal and notice of revision, in Government or contractor format, at least ten (10) days prior to the Government convening the CCB. No engineering changes shall be implemented without Government approval.

C.3.2.3.4 Material Review Board (MRB).

C.3.2.3.4.1 The contractor shall establish and implement the use of a MRB to determine the acceptance status of nonconforming parts and material used in fabrication of the Training Battery Assemblies throughout the life of the contract.

C.3.2.3.4.2 The contractor shall provide the Government at least ten (10) days notice prior to convening the MRBs so if the Government chooses, a representative may participate.

C.3.2.3.4.3 If as a result of the MRB a change is generated against an item that is under Government Configuration Control, the contractor shall provide an engineering change proposal and notice of revision, in Government or contractor format, at least ten (10) days prior to the Government convening the CCB. The contractor shall participate on the Government CCB. No engineering changes shall be implemented without Government approval.

C.3.3 Serialization and Markings.

C.3.3.1 Serial Numbers. None.

C.3.3.2 Markings, Tags and Identification Plates.

C.3.3.2.1 The contractor shall insure that markings, tags or identification plates on the systems are consistently located on the exterior of the systems, securely attached or marked, uniform in shape and size, legible, and visible to the naked eye.

C.3.3.2.2. The contractor shall ensure that the information placed on the systems does not degrade systems performance.

C.3.4 Packaging

C.3.4.1 Special Packaging Instructions (SPIs).

C.3.4.1.1. The contractor shall package all parts entering the military distribution system in accordance with SPIs.

C.3.4.1.1.1 The contractor may utilize the Government SPIs provided for information purposes, modify the Government SPIs, or develop and use contractor SPIs for military packaging.

C.3.4.1.1.1.1 If the contractor elects to use the Government furnished SPIs, packaging validation testing is not required.

C.3.4.1.1.1.2 If the contractor elects to develop and use contractor SPIs, or if the Government furnished SPIs are modified, the contractor shall perform packaging validation testing to ensure that the packaging meets or exceeds the requirements cited on the Government furnished SPIs.

C.3.4.1.1.1.3 All changes shall be documented on an Engineering Change Proposal (ECP) and Notice of Revision (NOR) in contractor's format, and submitted to the Government for approval in accordance with C.3.3 Configuration Management.

C.3.4.1.1.1.3.1 If packaging validation testing is required, the contractor shall prepare and submit a Packaging Test Plan. The contractor shall conduct packaging testing in accordance with this contract.

C.3.4.1.1.1.3.2 The contractor shall submit copies of the modified Government SPIs or contractor developed SPIs to the Government within 30 days of the completion of the packaging testing.

C.3.4.2 Preservation, Unit Packing, Packing, Unitization and Marking.

C.3.4.2.1 The generic term packaging, shall include preservation, unit packing, packing, unitization, and marking. All items going into the military distribution system (as set forth in Section F, Deliveries) require military packaging, as defined in MIL-STD-2073-1. Items not going into military stock shall be packaged in accordance with standard commercial practices and shall be received at the final destination undamaged and in useable condition.

C.3.4.2.2 The packaging for the Training Battery Assembly shall be military packaging, in accordance with the detailed requirements of MIL-STD-2073-1.

C.3.4.2.3 The contractor shall use, where practicable, advanced technology or innovative methods and materials for shipment and storage, for the purpose of effecting packaging economies. As a reference, the contractor may use MIL-STD-2073-1 – Standard Practice for Military Packaging; MIL-STD-129-Standard Practice, Marking for Shipment and Storage; and MIL-HDBK-304 – Packaging Cushioning Design, in the development of acceptable materials, containers, and processes for packaging. These documents may also be used for determining methods for preservation, unit packing, packing, unitization, and marking; procedures required to select packaging materials for packaging designs; and guidance in the preparation of packaging requirements expressed in the SPIs, and packaging drawings.

C.3.4.2.4 Protection. The contractor shall design all military packaging to provide unit protection in the Level A shipping configuration during shipment, handling and storage in accordance with the above work definition and MIL-STD-2073-1. The following storage and packaging rough handling conditions shall be met:

C.3.4.2.4.1 Storage. The contractor shall provide packaging capable of providing environmental protection to its contents for a period of 9 weeks under the following conditions:

Condition	Parameters
Desert	+160°F ± 2°F
Tropic	+113°F + 2°F 85 + 5% RH
Arctic	-50°F + 2°F
Cyclic	Three cycles, each cycle consisting of 1 week under each of the preceding conditions in sequence

C.3.4.2.4.2 Rough Handling. The contractor shall provide packaging capable of providing protection to its contents under the following rough handling conditions as specified in MIL-STD-810E, conducted sequentially:

Condition	Purpose
Secured Cargo Vibration	Test to simulate transport by truck, rail, aircraft, and ocean
Loose Cargo Vibration	Test to simulate field (off road) transports
Shock (drop)	Test to simulate packaging rough handling

C.3.4.3 Fabrication. The contractor shall fabricate prototypes of the packaging designs and conduct (1) packaging validation testing if required; and (2) packaging first article testing in accordance with the first article packaging inspection requirements as found in Section E of the contract (FAR Clause 52.209-3 Alt. I).

C.3.4.4 Hazardous Material Identification.

C.3.4.4.1 The contractor shall assure that the shipping configuration or container, as applicable, complies with Performance Oriented Packaging (POP), in accordance with Annex 1 Part 7 of the International Maritime Organization – International Maritime Dangerous Goods Code (IMO – IMDGC); Chapter 7 of the International Civil Aviation Organization – Technical Instructions for Safe Transportation of Dangerous Goods by Air (ICAO-TDGA); and 49 Code of Federal Regulation (CFR) Transportation, Parts 107-178 if the end item is or contains a regulated hazardous material.

C.3.4.4.2 The contractor shall design, mark, and certify the packaging in accordance with these documents. The contractor shall conduct all testing in accordance with ASTM D 4919 Testing of Hazardous Materials Packaging.

C.3.5 QUALITY ASSURANCE SYSTEM

C.3.5.1 Quality System.

C.3.5.1.1 The contractor shall implement, execute, and maintain a Quality System in accordance with International Standard Operation 9002 (ISO 9002) for the life of this contract.

C.3.5.1.2 The contractor may use an existing Quality System provided it meets acquisition needs and is acceptable to the Government. Registrars Accreditation Board (RAB) certification is not required for the performance of this contract.

C.3.5.2 Quality System Plan (QSP). The contractor shall utilize the QSP submitted in response to this solicitation and approved by the Government at contract award as the baseline for all quality program activities. The contractor shall update the QSP with all comments identified by the Government. The contractor shall make the approved plan available to the Government 30 days after contract award. The contractor shall obtain the written approval of the PCO prior to the implementation of the QSP and any subsequent changes. The contractor shall implement and maintain the QSP throughout the life of this contract.

C.3.5.3 Reduction of Latent or Incipient Defects. The contractor shall implement a process for the reduction of latent or incipient defects in the Training Battery Assembly and its components.

C.3.5.4 First Article Testing (FAT). The contractor shall conduct FAT of the Training Battery Assembly, and applicable military packaging, as defined in Section E of this contract.

C.3.5.4.1 FAT Test Plan. The contractor shall prepare and submit a detailed FAT test plan.

C.3.5.4.2 The contractor shall conduct FAT on eight (8) Training Battery Assemblies. The contractor shall perform FAT in accordance with EA-PRF-2168.

C.3.5.4.3 Deleted.

C.3.5.4.4 The contractor shall package and transport all test hardware to and from all test sites.

C.3.5.4.5 FAT Report

C.3.5.4.5.1 The contractor shall prepare and submit a FAT Report.

C.3.5.4.5.2 The contractor shall include all test data to include but not limited to actual dimensional, physical, and electrical test results.

C.3.5.4.5.3 The contractor shall provide certification of materials and components as an appendix to the FAT Test Report.

C.3.5.5 Production of Training Battery Assembly. The contractor shall not initiate production or fabrication of hardware until all FAT test results have been approved by the Government.