

ORDER FOR SUPPLIES OR SERVICES

1. CONTRACT/PURCH. ORDER/ AGREEMENT NO. DASG60-02-D-0009	2. DELIVERY ORDER/ CALL NO. 005801	3. DATE OF ORDER/CALL 2002May15	4. REQ./ PURCH. REQUEST NO. 2R2BROO2AX-00	5. PRIORITY DX-A2
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6. ISSUED BY US ARMY SPACE AND MISSILE DEFENSE [REDACTED] P.O. BOX 1500 HUNTSVILLE AL 35807-3801	CODE W31RPD	7. ADMINISTERED BY DCM BIRMINGHAM BURGER PHILLIPS CENTER 1910 THIRD AVE., NORTH, RM. 201 BIRMINGHAM AL 35203-2376	CODE S0101A	8. DELIVERY FOB <input checked="" type="checkbox"/> DEST <input type="checkbox"/> OTHER (See Schedule if other)
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9. CONTRACTOR MEVATEC CORPORATION 1525 PERIMETER PKW, STE 500 HUNTSVILLE AL 35806	CODE OJLS6	FACILITY	10. DELIVER TO FOB POINT BY (Date) SEE SCHEDULE	11. MARK IF BUSINESS IS <input checked="" type="checkbox"/> SMALL <input checked="" type="checkbox"/> SMALL DISADVANTAGED <input checked="" type="checkbox"/> WOMEN-OWNED
			12. DISCOUNT TERMS	13. MAIL INVOICES TO THE ADDRESS IN BLOCK See Item 15

14. SHIP TO SEE SCHEDULE	CODE	15. PAYMENT WILL BE MADE BY DFAS-COLUMBUS CENTER DFAS-CO/SOUTH ENTITLEMENT OPERATION P.O. BOX 182264 COLUMBUS OH 43218-2264	CODE HQ0338	MARK ALL PACKAGES AND PAPERS WITH IDENTIFICATION NUMBERS IN BLOCKS 1 AND 2.
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16. TYPE OF ORDER	DELIVERY/ CALL	<input checked="" type="checkbox"/>	This delivery order/call is issued on another Govt. agency or in accordance with and subject to terms and conditions of above numbered contract.	
	PURCHASE		Reference your quote dated	Furnish the following on terms specified herein.
ACCEPTANCE. THE CONTRACTOR HEREBY ACCEPTS THE OFFER REPRESENTED BY THE NUMBERED PURCHASE ORDER AS IT MAY PREVIOUSLY HAVE BEEN OR IS NOW MODIFIED, SUBJECT TO ALL OF THE TERMS AND CONDITIONS SET FORTH, AND AGREES TO PERFORM THE SAME.				
NAME OF CONTRACTOR		SIGNATURE		TYPED NAME AND TITLE
				DATE SIGNED (YYYYMMDD)
<input type="checkbox"/> If this box is marked, supplier must sign Acceptance and return the following number of copies:				

17. ACCOUNTING AND APPROPRIATION DATA/ LOCAL USE
See Schedule

18. ITEM NO.	19. SCHEDULE OF SUPPLIES/ SERVICES	20. QUANTITY ORDERED/ ACCEPTED*	21. UNIT	22. UNIT PRICE	23. AMOUNT
SEE SCHEDULE					

* If quantity accepted by the Government is same as quantity ordered, indicate by X. If different, enter actual quantity accepted below quantity ordered and encircle	24. UNITED STATES OF AMERICA [REDACTED] ...TING / ORDERING OFFICER	25. TOTAL \$53,000.00	29. DIFFERENCES
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26. QUANTITY IN COLUMN 20 HAS BEEN <input type="checkbox"/> INSPECTED <input type="checkbox"/> RECEIVED <input type="checkbox"/> ACCEPTED, AND CONFORMS TO THE CONTRACT EXCEPT AS NOTED DATE _____ SIGNATURE OF AUTHORIZED GOVT. REP. _____	27. SHIP NO. <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	28. DO VOUCHER NO.	30. INITIALS
36. I certify this account is correct and proper for payment. DATE _____ SIGNATURE AND TITLE OF CERTIFYING OFFICER _____	31. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	32. PAID BY	33. AMOUNT VERIFIED CORRECT FOR
			34. CHECK NUMBER
			35. BILL OF LADING NO.

37. RECEIVED AT	38. RECEIVED BY	39. DATE RECEIVED (YYYYMMDD)	40. TOTAL CONTAINERS	41. S/R ACCOUNT NO.	42. S/R VOUCHER NO.
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SECTION B Supplies or Services and Prices

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0001	SETAC - FP Labor	1.00	Lot	\$	\$ NTE
	COST - Provide services outlined in the scope of work (SOW), as defined in a given task order (T/O), at the fixed prices/government labor category specified in Section B paragraph entitled, "GOVERNMENT LABOR CATEGORIES AND ASSOCIATED FIXED PRICES PER DPPH"				
	PURCHASE REQUEST NUMBER 2R2BROO2AX-00				
				MAX COST	\$46,000.00

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0003	Consultants	1.00	Lot	\$	\$ NTE
	COST - Provide services outlined in the scope of work (SOW) at the cost reimbursable amounts as approved on a task-order-by-task-order basis. Total Fee, including prime and subcontractor/consultant, shall not exceed 3% of the estimated costs. This CLIN is valid during the three-year base period as well as any/all award term extensions earned by the contractor.				
	PURCHASE REQUEST NUMBER 2R2BROO2AX-00				
				MAX COST	\$0.00

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0004		1.00	Lot	\$	\$ NTE

Materials and STE

COST - Provide materials, special test equipment (STE), and associated services outlined in the individual task orders at the cost reimbursable amounts as approved by the T/OM and the Contracting Officer. NO FEE ON THIS CLIN. This CLIN is valid during the three-year base period as well as any/all award term extensions earned by the contractor.

PURCHASE REQUEST NUMBER 2R2BROO2AX-00

MAX COST \$5,000.00

ITEM NO	SUPPLIES/SERVICES	MAX QUANTITY	UNIT	UNIT PRICE	MAX AMOUNT
0005		1.00	Lot	\$	\$ NTE

Travel

COST - Travel as directed in the individual task orders. Travel must be completed within the cost reimbursable amounts allowed per the Joint Travel Regulations and the DCAA-approved Company-Implemented Policy and Procedures. NO FEE ON THIS CLIN. This CLIN is valid during the three-year base period as well as any/all award term extensions earned by the contractor.

PURCHASE REQUEST NUMBER 2R2BROO2AX-00

MAX COST \$2,000.00

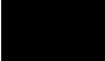
BLOCK 17 (DD1155) CONTINUED:

TASK ORDER FUNDS REQUIRED	\$53,000
TASK ORDER FUNDS AVAILABLE	\$53,000
UNFUNDED BALANCE	\$0

BLOCK 18 (DD1155) CONTINUED: In the performance of this Task Order (T/O), the contractor shall provide the total Direct Productive Person Hours (DPPHs), plus or minus 10 percent, as stated for fixed-price labor categories stated in Section B of the contract listed in Block 1 of the DD Form 1155. These DPPHs shall be billed at the fixed price stated in Exhibit V of the contract. The contractor shall not exceed the DPPHs, nor the total dollars, stated for

consultant below. The contractor is allowed to provide up to 10 percent less than the DPPHs stated for consultant and still expend the total dollars as stated in the T/O. Furthermore, under no circumstance shall the contractor exceed the dollars stated for Materials, Travel, or Total T/O.

LABOR CATEGORIES: Labor categories are as listed in the contract, Section B, paragraph entitled "GOVERNMENT LABOR CATEGORIES AND ASSOCIATED FIXED PRICES PER DPPH"

	DPPHs ORDERED	NTE AMOUNT
FIXED-PRICE LABOR TOTAL	 DPPHs	\$46,000
*CONSULTANT TOTAL	 DPPHs	\$0
T/O TOTAL LABOR	 DPPHs	\$46,000
MATERIAL	NTE	\$5,000
TRAVEL	NTE	\$2,000
T/O TOTAL		\$53,000

**Consultant requirements must have prior written approval of the Administrative Contracting Officer (ACO) (via subcontract consent package) before any costs are incurred under the consultant CLIN.

SECTION C Descriptions and Specifications

“UH-60 ELECTRICAL AND LANDING GEAR COURSEWARE, INTERACTIVE MULTIMEDIA INSTRUCTION (IMI)” STATEMENT OF WORK

1.0 Background: This effort began with task order 183 under contract DASG60-97-D-0001. The contract expired and the purpose of this task order is to complete the effort from the original task. All prior modification changes have been incorporated into this statement of work.

1.1 Introduction : This Statement of Work (SOW) establishes the non-specification requirements for the tasks and subtasks to be performed by the contractor. This trainer will be used by the U.S. Army Aviation Logistics School located at Fort Eustis, Virginia to train aviation maintenance personnel in operation and theory of aircraft systems, maintenance procedures, and troubleshooting. The words “trainer”, “training system”, and “training device” used throughout this document are synonymous. It describes the work efforts required to fulfill the task order. The contractor shall design the courseware and produce, integrate, install, and test a UH-60 aircraft systems trainer. This trainer shall provide interactive, media-rich level 3-4, performance based IMI covering theory, maintenance procedures, and troubleshooting of the UH-60 aircraft systems.

2.0 Applicable Documents

2.1 The following documents of issue shown on the Document Summary List (DSL) form part of the SOW to the extent specified herein. In the event of conflict between documents referenced herein and the contents of this SOW, the SOW shall take precedence. Nothing in this document, however, supercedes applicable laws and regulations unless a specific exemption has been obtained.

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|------------------|----------------------------------|
| 2.1.1 Appendix A | UH-60 Aircraft Systems |
| 2.1.2 Appendix B | UH-60 Troubleshooting Task list |
| 2.1.3 Appendix C | UH-60 PMS-1 Inspection task list |

3.0 System Description: The system design shall fulfill the requirements of the U.S. Army Aviation Logistics School (USAALS) for the UH-60 Aircraft Systems Trainer. The contractor shall develop the courseware and use commercial hardware and software.

4.0 Software: All courseware shall be developed using readily available, commercial software applications to the maximum extent possible. Simulator control and networking shall utilize commercial software applications to the maximum extent possible. The contractor shall document the developed software. Diagnostic Tests shall be performed using diagnostics provided with the network package.

5.0 Site Survey: A site survey and inspection shall be performed to evaluate the proposed installation site for adequate space, power, and environmental requirements. Any special electrical line and power supply requirements shall be identified. Measurements shall be taken for cables to support the equipment components and peripherals and to confirm furniture requirements. This action will allow the formal layout of the classrooms prior to installation of the network and furnishings.

6.0 Product Definition Data (PDD): The PDD shall disclose the complete design, logistics and manufacturing requirements. The contractor shall prepare installation drawings for the device based on the facilities requirements and site survey. The contractor shall prepare a commercial drawing package adequate to maintain the trainer.

7.0 Interactive Courseware (ICW): The courseware shall be developed to train aviation maintenance personnel in the theory, maintenance procedures, and troubleshooting of the UH-60 aircraft systems. The courseware will allow

the student to remove, replace and troubleshoot as per the applicable Technical manual. Appendices A and B identify the scenarios to be developed for this effort.

8.0 Design Strategy: The contractor shall utilize a design strategy which is methodical and logical. This strategy shall describe all critical elements required to design and develop the courseware lessons and the Courseware Manager. The design strategy shall be presented at the first technical interchange meeting. The ICW design strategy shall include:

- 8.0.1 Basic screen design and layout
- 8.0.2 Lesson titles
- 8.0.3 Safety hazards
- 8.0.4 Lesson objectives
- 8.0.5 Lesson outlines
- 8.0.6 CMI for testing and remediation
- 8.0.7 Interface design and controls
- 8.0.8 Course map
- 8.0.9 Conventions

9.0 Flow Diagrams: The contractor shall design and present flow diagrams that show the layout of the entire ICW course based on the final design strategy. The flow diagrams shall outline the flow of the course to be developed. The flow diagrams shall support the technical information flow necessary for the development and update of all script storyboards.

10.0 Script Storyboards: The contractor shall develop and deliver ICW script-storyboards for the courseware based upon the final design strategy and the flow diagrams. The script-storyboards shall describe each specific training screen using a graphic for visual presentation and textual descriptions for all text, graphic animations, video, and audio used.

11.0 Test Program: The contractor shall develop a test program that consists of the tests necessary to validate the trainer capabilities. The contractor shall conduct a visual installation inspection of the components and their associated cabling and support systems to verify that the installation has been accomplished in accordance with approved installation drawings. System operability testing will ensure that the overall system performance meets the training requirements.

12.0 Safety: The contractor shall conduct a system safety risk management process.

13.0 Conferences and reviews: The contractor shall support Technical Interchange Meetings for the trainer. A Start of Work Conference to be scheduled after the award of the contract with a meeting quarterly until program is complete. The contractor shall provide notification to the government no later than two weeks prior to scheduling a TIM. The contractor shall prepare an agenda for all meetings and conferences to include all areas to be addressed during the meetings with the government.

14.0 ILS Management

14.1 Transition of support and training: The contractor shall develop the curriculum and materials for a maintenance and operator training course. The contractor shall conduct a training course, utilizing the aforementioned curriculum and materials, on the use of the trainers for maintenance and operator personnel. The training course will be provided prior to acceptance of the trainer.

14.2 Appendices

14.2.1 Appendix A

14.2.1.1 UH-60 Aircraft Systems

14.2.1.2 Electrical

14.2.1.3 Landing Gear

14.2.2 Appendix B

14.2.2.1 UH-60 Troubleshooting Tasks

14.2.2.2 Electric:

#1 GEN BRG capsule goes on.

#1 GEN capsule does not go on with the #1 generator off.

One formation light does not go on.

Searchlight does not extend with pilot's searchlight control pushed to EXT.

Incandescent position lights do not flash.

14.2.2.3 Landing Gear:

Break pedals bottom out

Breaks do not hold

Parking break capsule does not go on

Tail wheel lock pin does not disengage Tail wheel switch indicates lock

Tail lock pin disengages but tail wheel switch indicates lock

Tail wheel lock pin does not engage and tail wheel switch indicates unlock

Tail wheel lock pin engages but tail wheel switch indicates unlock

15.0 Performance Specification For UH-60 Electrical and Landing Gear Courseware, Interactive Multimedia Instruction (IMI)

16.0 Scope: This specification establishes the performance criteria and requirements for the fabrication, inspection, integration, testing and verification of the UH-60 Aircraft Systems Trainer. The purpose of this trainer is to provide the UH-60 maintainer a thorough knowledge of systems operations, troubleshooting techniques, fault isolation procedures, removal and installation procedures, and maintenance operational checks using simulation and performance based interactive multimedia instruction.

17.0 Applicable Documents: The following documents of issue shown on the Document Summary List (DSL), APPENDIX B form part of the Performance Specification to the extent specified herein.

18.0 Other Government Documents, Drawings and Publications

18.1 Publications:

TM 1-1520-237-23, -2, -3, -4, -5, -6, -7, -8

TM 1-2840-248-23

TM 55-2835-208-23

TM 55-2835-209-23

TM 55-1730-229-12

19.0 Order of Precedence: In the event of a conflict between the text of this document and the referenced cited herein, the following order of precedence shall apply: Contract Schedule, Specification, Statement of Work and all other references. Nothing in this document, however, supercedes applicable laws and regulations unless specific exemption has been obtained.

20.0 Requirements

20.1 Prime Item Definition: The UH-60 Aircraft Systems Trainer shall provide an interactive graphic simulation of the helicopters major systems to include scheduled inspections. The trainer will incorporate simulation of systems, theory, troubleshooting, maintenance operational checks and removal and installation procedures as applicable.

20.2 Major Component List

20.2.1 The UH-60 Aircraft Systems Trainer shall consist of the following items:

- Instructor Operator Console (1)
- Student Stations (18)
- Computer System (19)
- Trainer System Software (Link System II)
- Printer (1)
- Data Archival Unit (1)
- Electronic Smart Board (1)
- Projector (1)

20.3 Characteristics

20.3.1 Performance: The UH-60 aircraft Systems Trainer shall simulate the operation, performance, and configuration for the UH-60 aircraft.

20.3.2 Trainer Operation: The instructor shall have the capability to monitor each student station from the instructor station. The instructor will be able to track student progress i.e. incorrect choices, time on a lesson, etc.

20.3.3 Operational Checks: The trainer will simulate the normal operation of a Black Hawk system as defined in current POI and Syllabus and also provide a simulation of a malfunction in the system as applicable. The student will be required to identify the malfunction, select appropriate tools, and make necessary repairs. The appropriate visual indication shall be displayed during the simulated operational check as required. This simulation shall be accomplished through the use of interactive graphics, digitized images, and instructional material.

20.3.4 Troubleshooting Techniques: Each student shall have the ability to individually perform the troubleshooting techniques for a designated fault. For each troubleshooting step, the display shall show the parts and equipment associated with that step, and the location of the particular area on the aircraft. Each fault shall have the appropriate malfunction indications as specified in the aircraft maintenance manual.

20.4 Physical Characteristics

20.4.1 Dimensions: The trainer shall be constructed so that each component can be moved through a doorway 1.86 meters wide and 2.13 meters high.

20.4.2 Power: All components of the trainer shall utilize standard facility power of 120 volts, 60 Hz. All power shall be from a single source via an uninterruptible power source. The contractor will provide the government the power requirements for the trainer at least six months prior to installation of the trainer.

20.4.3 Supportability: The trainer shall be configured and constructed to allow for moving and storage during periods of non-use.

20.4.4 Availability: Quantitative hardware requirements for the UH-60 Aircraft Systems Trainer shall be designed to have a factor of 90 percent when used 16 hours per day, 5 days per week, 50 weeks per year.

20.4.5 Maintainability: Maintainability for the training device shall be in accordance with the following requirements:

20.5 Commercial equipment shall be capable of replacement comparable equipment within 60 minutes.

Any interconnecting cable or harness shall be capable of replacement with a comparable cable or harness using standard hand tools within 60 minutes

20.6 Environmental Conditions: The equipment shall be designed to operate in an environment of 15 deg C to 35 deg C and a relative humidity of 50 to 75 percent non-condensing.

20.7 Construction: Selection of trainer commercial hardware shall be in accordance with the following requirements.

20.8 Materials: Except for those materials specified or excluded by this specification, the selection of commercial equipment materials shall be the responsibility of the contractor. When selecting commercial equipment, the contractor shall ensure that the primary requirements are met. The contractor shall use COTS materials and equipment where possible.

20.9 Electromagnetic Interference (EMI) Suppression: The UH-60 Aircraft Systems Trainer, electronic or electrical configuration shall not be an adverse source of EMI or a victim of Electromagnetic Environmental Effects (E3) in the intended operational environment. Electronic equipment or systems shall have a Class B certification under the U.S. Federal Communications (FCC) Rules, Part 15, and Subpart J.

20.10 Safety

20.10.1 Safety Risk and Hazard Design Considerations: The system shall be designed so that it protects against the risk of personnel injury and equipment damage under all conditions of normal use (installation, operation, and maintenance) and under a likely fault condition (including human error). Mitigation or elimination or potential safety hazards through design shall be emphasized over avoidance or hazards through procedures and warnings.

20.10.2 Safety Design Requirements: The system design shall be consistent with recognized consensus safety standards (UL, NFPA, OSHA, ANSI, IEEE, etc) applicable to the system design. Safety design requirements shall be carried through all levels of specification with trace ability and rationale.

21.0 Major Component Characteristics

21.1 Instructor Console: The instructor's console shall contain all controls necessary for the operation and control of the training system. A secure space shall be provided within the console for storage of the trainer technical data. A suitable work surface shall be provided to use for writing or placement of reference material. The instructor's console shall be operable by one instructor.

21.2 Instructor Console Display: The instructor's console shall include a display system incorporating a monitor or monitors as required, which shall be integrated into the console in a manner, which shall permit comfortable use, and viewing by the instructor.

21.3 Instructor Console Controls: Trainer control shall be provided for data entry including training task initiation, grading critique, and administrative record entry and retrieval. Graphical User Interface (GUI) controls may be used to select and control training scenarios and control overall trainer operation.

22.0 Student Stations: Each of the eighteen student stations shall provide a display system as described below. Each station shall be designed to accommodate and provide training for a single student. Each station shall contain a means for inputting data and interacting with the lessons (e.g., keyboard, mouse, touch screen, trackball, etc), and shall have a work surface large enough to hold an open UH-60 manual. Each student shall have the capability of operating independently of other students.

22.1 Student Station Display: Each student station display system shall consist of a 19-inch monitor and any peripheral equipment to permit each student to perform the training functions. The monitors shall be equipped so as to reduce level of glare.

22.2 Student Station Operation: The students shall be able to select and perform operational checks of aircraft systems in order to determine malfunctions. This may be accomplished through GUI as appropriate. When the students, through following the troubleshooting manual and observing the graphic display, have determined the malfunction, then the students shall be able to isolate the fault, and then choose the correct part to be replaced or repaired. The trainer shall enable the student to select a graphical representation of the appropriate diagnostic equipment and simulate use of the equipment if needed.

23.0 Computer System.

23.1 Processor Requirements: Each of the nineteen processors shall have a word size and operating speed that shall meet the system performance requirements described in this specification. Instructor and student consoles, graphic displays, and indications shall be free of discernible stepping, oscillating, jittering, or other erratic behavior except for momentary interruptions during auto save. Sufficient installed memory shall be provided for each processor so that the computer system can store and execute the complete trainer operational program.

23.2 Network Requirements: The UH-60 Aircraft Systems Trainer shall be capable of networked operation of the IOS and student stations during training sessions. Multiple or simultaneous operations, actions inputs and outputs of any unit (IOS, student station) shall not degrade the performance on any of the other units on the network. Data transfers between units shall be accomplished so as to minimize wait time during a training session.

23.3 Mass Storage: Mass storage (including controllers) shall consist of one or more hard disk units, optical storage units, or other technology equivalent high reliability equipment. Total installed capacity shall be sufficient to store all required program software including source and executable database for software plus transient storage and still have at least 50% expansion capability.

23.4 Diagnostic Software: Diagnostic software needed to fulfill the requirements of this specification shall be provided. Diagnostic software shall test the operation of computers, peripheral equipment and other trainer hardware.

23.5 System Daily Readiness Check Program: Daily readiness checks program(s) shall be designed and implemented to enable operating personnel: to determine that the trainer is ready for operation. Identification of the error and suggested action shall be provided on the monitor. The systems daily readiness check shall require less than 30 minutes to complete.

23.6 Printer: A printer shall be provided to document student performance. The printer shall be provided in a location convenient to the instructor.

23.7 Data archival Unit: A data archival unit shall be designed, procured, installed and connected to allow verified backup and restoration of all data. The data archival unit shall have read-and write capability and shall be capable of backing up, onto one media unit, the data stored on the largest capacity logical disk unit when that unit is full. The unit shall have the capability to write and read in accordance with a recognized and approved formal industry or other formal organizational standard (e.g. ANSI, IEEE, ISO) to support software portability.

23.8 Electronic SMART Board: Contractor shall provide a stand-alone electronic SMART board, which can be controlled from either a panel, mounted control, a keyboard, or an air controlled mouse. All programs available to the student stations shall be presentable on the SMART board to provide the instructor with course critique and demonstration capability.

23.9 Projector: Contractor shall provide a projector with a resolution that is compatible with the resolution used to develop the instruction. The projector will also be ceiling mounted.

24.0 Verification

24.1 General: Contractor shall show evidence of examination, demonstrations, tests, analysis, or certificate of conformance, as appropriate; to assure the UH-60 Aircraft Systems Trainer meets all requirements of section 3.0 of this specification. Verification definitions are provided below.

24.1.1 Examination: Examination is an element of inspection consisting of an investigation, without use of special laboratory appliances or procedures, of supplies and service to determine conformance to those specified requirements, which can be determined by such investigations. Examination is generally nondestructive and includes, but not limited to, the use of sight, hearing, smell, touch, and taste; simple physical manipulation; mechanical and electrical gauging and measurement; and other forms of investigation.

24.1.2 Demonstration: Demonstrations will be performed through actual exercise of the item to verify that the specified requirements have been met.

24.1.3 Test: Test is an element of inspection and generally denotes the determination, by technical means, of the properties or elements of supplies, or components thereof, including functional operation, and involves the application of established scientific principles and procedures.

24.1.4 Analysis: Analysis is the processing of accumulated data obtained from other qualification methods. Processing includes, but not limited to, reduction, interpretation, or extrapolation of test requirements and results.

24.1.5 Certification: Certification is a procedure whereby Contractor shall provide a certification verifying that the requirement has been met. Certifications must include documented test results, performance data, analytical data, or vendor documentation. The certification must be available to our representatives immediately upon request for review during verifications.

24.2 Examination: The trainer will be examined for compliance with the requirements specified in 20.4.2, 20.4.3, 20.9 and 20.10.2. This element of inspection will encompass as visual examinations for workmanship. Noncompliance with any specified requirements or presence of one or more defects preventing or lessening maximum efficiency shall constitute cause for rejection.

24.3 Conformance Inspection

24.3.1 Operational Checks: The fault isolation operational procedures listed in the aircraft manuals will be used to perform all operational checks. These procedures shall be demonstrated with no faults introduced into the training system. Inability of the training system to provide the required visual and tactical human interface needed to complete each operational check and have the training system indicate an operational ready state at the end of each checkout procedure will be deemed a failure.

24.4 Troubleshooting Techniques: The procedures described in the aircraft maintenance manuals will be used to perform all troubleshooting tasks identified for each aircraft system. The procedures shall be demonstrated with each fault introduced into the training system. Inability of the training system to provide the appropriate visual fault indications leading to the designated failed component, unit, or wire will be deemed a failure.

24.5 Physical Characteristics: Each component of the training device shall not exceed the dimensions defined in 20.4.1. Inability to move any component through the doorway as specified will be deemed a failure.

24.6 Maintainability: A sample of five replaceable components and cables will be selected. With all replacement parts and tools available prior to the start of demonstration, each selected component or cable shall be replaced using procedures defined in associated maintenance manuals. Replacement times exceeding 60 minutes for any individual component or cable will be deemed a failure.

25.0 EMI: Contractor shall certify that the electrical configuration of the trainer does not emit or provide a source of EMI as referenced in 20.9. USAALS will inspect individual trainer components for FCC certification labels. Absence of certification will be deemed a failure.

26.0 Safety: USAALS will perform a visual inspection to insure all training device components are protected against risk of personnel injury and equipment damage as specified in sections 20.10.1 and 20.10.2. Noncompliance with industry recognized safety standards would be deemed as a failure.

27.0 Instructor Console: Contractor shall demonstrate instructor console operability as specified in 21.3. Test demonstrations shall include, but not limited to, the IOS and student station initialization; system network readiness checks; control of IOS training scenario to group or individual student stations; scenario fault insertion; scenario start; stop; pause; print commands; student real time monitoring; generation of student grading and critiques reports. Inability to demonstrate IOS control commands initiated by the operator will be deemed a failure.

28.0 Student Stations: Contractor shall demonstrate student station operability as specified in Sections 20.0, 22.1, and 22.2. Contractor shall demonstrate that each of the twelve student stations is capable of accepting IOS commands as referenced in Section 21.1. Noncompliance with specified requirements identified above will be deemed as a failure.

29.0 Computer System:

29.1 System Network: Contractor shall demonstrate IOS and student networking protocol, operability, and installation as specified in Section 23.2. Testing of the trainer system network shall include, but not be limited to, IOS capability to control all or individual student work stations and peripherals; IOS capability to initiate local system readiness tests via system network; system log-on and log-off capability. Noncompliance with specified requirements above will be deemed as a failure.

29.2 Self Test: Contractor shall demonstrate self-test and fault isolation capability as specified in sections 23.4 and 23.5. Power-on diagnostics/built-in tests shall verify the operational status of the computer system by checking various major subsystems. Self-test and daily readiness checks shall be initiated to verify operational status of the trainer system and subsystems. Maintenance diagnostic programs shall be used to troubleshoot major system components. Inability to demonstrate the system self-tests and fault isolation will be deemed as a failure.

30.0 Peripherals

30.1 Printer: The printer shall be tested to demonstrate proper connectivity, operability, and installation. Testing of the printer shall include, but not limited to, printout of student grading and critique reports. Inability to demonstrate print commands initiated by the operator will be deemed as a failure.

30.2 Data Archival Unit (DAU): The DAU shall be tested to demonstrate proper connectivity, operability and installation. Testing of the DAU shall include, but not limited to, verify by analysis training data can be stored and retrieved from all instructor and student system disks. Demonstrate DAU read/write capability. Inability to demonstrate storing and retrieving commands initiated by the operator will be deemed as a failure.

30.3 Electronic SMART Board: The electronic SMART board shall be tested to demonstrate proper connectivity, operability and installation. Testing of the SMART board shall include, but not limited to, verify by analysis training data can be displayed and controlled from the IOS, the SMART control panel, and the air mouse. Demonstrate SMART board display and control capability. Inability to demonstrate the display and control capability by the operator will be deemed as a failure.

31.0 Packaging: Packing requirements shall be specified by the task order monitor.

PERIOD OF PERFORMANCE: 15 May 2002 – 30 Jul 2002

KEY PERSONNEL: [REDACTED]

DELIVERABLES:

Item/Title	CDRL#	# Copies	Delivery Date
Task Order Management Plan	A001	1 *	Per CDRL
Quarterly Status Report	A002	3	As Required
FMER	A003	1 *	Per CDRL
Developed Software (As Described in 15.0 to 30.3)	A004	5	Upon Delivery of System
Hardware/Computer Stations	A004	1	Upon Delivery of System
Classroom Setup	A004	1	Upon Delivery of System
Copy of Authorware Version Used for Development	A005	1	Upon Delivery of System
Procedural/Instructor Manual	A005	1	Upon Delivery of System
Maintainer/Instructor Class	A005	1	Upon Delivery of System
Final Technical Report	A005	2 */**	30 July 2002
Data Accession List	A007	1	Per CDRL

* Plus Electronic Version.

** One (1) hardcopy to the T/OM, and one (1) hardcopy to the SMDC Command Library (SMDC-IM-PL/Fred Mathews).

ESTIMATED TRAVEL: Except for the locations listed below, the contractor has no authority to incur travel costs without explicit prior written approval (email acceptable) of the Task Order Monitor. Under no circumstance shall the contractor incur travel costs in excess of the NTE amount stated herein. NTE: \$2,000

Ft Eustis, VA

ESTIMATED COST FOR MATERIALS AND/OR SPECIAL TEST EQUIPMENT: The contractor has no authority to incur material costs without the explicit prior written approval of the contracting officer. Prior to forwarding requests to the contracting officer, the contractor shall obtain the Task Order Monitor's concurrence. Electronic Mail (email) shall be utilized for both steps in this process. Under no circumstance shall the contractor incur materials costs in excess of the NTE amount stated herein. NTE: \$5,000

SPECIAL INSTRUCTIONS:

Cost data shall be segregated/reported/vouchered/paid at the ACRN level.

The "Limitation of Funds" is applicable at the ACRN level.

The effort described in the Task Order Statement of Work, which is anticipated to be performed in FY02, is subject to the Clause at FAR 52.232-18, Availability of Funds.

All of the terms and conditions of the contract listed in Block 1 above are applicable to this T/O.

All of the provisions and clauses of the contract listed in Block 1 above are applicable to this T/O.

The following Government Furnished Property or Test Facilities are available for use in performance of this Task Order:

U.S. Army Aviation Logistics School (USAALS), Ft. Eustis, VA

It is incumbent upon the contractor and/or subcontractor to ensure that appropriate Technical Assistance Agreements (TAAs) and/or applicable export licenses are in place before conducting any activity under the SOW which requires such approval and documentation.

TASK ORDER MONITOR: [REDACTED]
[REDACTED]

MAILING ADDRESS OF TASK ORDER MONITOR: [REDACTED]
[REDACTED]

PROGRAM MANAGEMENT POC: [REDACTED]
[REDACTED]

MAILING ADDRESS OF PROGRAM MANAGEMENT POC: [REDACTED]
[REDACTED]

SECTION G Contract Administration Data

ACCOUNTING AND APPROPRIATION DATA

AA: 21 2 2031 0000 2 5E 5E05 11206772004 2512 FPEG (2R2UHP) S23204 MIPR: 000000000000
2R2BROO2AX
AMOUNT: \$53,000.00