

PERFORMANCE WORK STATEMENT
EOD Training Room Audio/Visual Upgrade, Peterson Space Force Base, CO



PERFORMANCE WORK STATEMENT (PWS)
FOR
EOD TRAINING ROOM AUDIO/VISUAL UPGRADE
AT
PETERSON SPACE FORCE BASE

10 April 2023

PERFORMANCE WORK STATEMENT
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PERFORMANCE WORK STATEMENT
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SECTION I

1. **DESCRIPTION OF SERVICES:** The 21 CES/CED training room located on Peterson SFB, building 625, room 123 requires an Audio Visual (AV) upgrade in order to expand training capabilities and to present a clearer High-Definition (HD) Image. This will include the install of Government Provided Equipment (GPE) and must allow end-user to seamlessly change input devices from four video/audio input devices. The contractor shall furnish all personnel, equipment, tools, materials, supplies, transportation and labor necessary for complete installation, programming and instructions in order to replace current AV system.

1.1. OPERATIONAL REQUIREMENTS AND SPECIFIC TASKS

1.1.1. Requirement and Description of Services

1.1.1.1. The requirements for the 21 CES/CED training room are to ensure that an AV system seamlessly integrates all identified and required video sources and components into a user friendly interface that will meet or exceed all DoD standards on classified and unclassified interoperability standards. The AV equipment will be utilized in a classified area. The AV system must be capable of, but not limited to playing videos and accessing Power Point slides. The system must also have an all-in-one control for the AV system and projector screen accessible from the lectern. The all-in-one control shall allow end-user to transition from video sources directly with the touch screen panels and without having to adjust any cabling. The AV system will include four (4) in-ceiling speakers for the purpose of audio only. There is no requirement for a microphone or Video Teleconferencing capability. The system must fully integrate one classified Secret Internet Protocol Router Network (SIPR) workstation, one unclassified workstation, one classified laptop and one unclassified document camera as well as control two (2) LED classification marquees. The system will include installation of confidence monitor, projector, projector screen with controls, and all necessary peripherals and cabling. Contractor will be responsible for installing power for confidence monitor, projector and projector screen.

1.1.1.2. The Contractor Shall:

1.1.1.2.1. Be experienced and proficient in AV solution design and installation.

1.1.1.2.2. Possess the following AMX by HARMAN Certified Expert (ACE) certifications:

1.1.1.2.2.1. ACE Programming Expert – ACE-P

1.1.1.2.3. Provide on-site training. Training shall include a hard and soft copy training plan to include operation and maintenance manuals. Training Plan should include but not limited to syllabus in APPENDIX A.

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1.1.1.2.3.1. Operation Manuals shall contain but are not limited to complete step-by-step instructions for the system start-up, execution of all system's functions, and restoration processes.

1.1.1.2.3.2. Maintenance manuals shall contain but are not limited to the following:

1.1.1.2.3.2.1. Documentation for all end user performed maintenance of system components, preventative maintenance instructions, troubleshooting diagnosis steps, and replacement part numbers for equipment.

1.1.1.2.3.2.2. Drawings that include basic point-to-point layouts, cable running lists, and room layout.

1.1.1.2.3.3. Provide As-built drawings for approval prior to installation.

1.1.1.2.3.3.1. The as-built documentation shall also include layout drawings, power drawings/specifications, and floor plans that support the installation of the system.

1.1.1.2.3.3.2. Upon government approval of the as-built drawings, the contractor will be authorized to proceed with the installation. If discrepancies are identified, the contractor shall correct all discrepancies and provide revised documentation for approval.

1.1.2. Specific Tasks

1.1.2.1. Install two (2) GPE touch screen panels to provide all-in-one control of installed AV equipment to include LED classification signs, projector and projector screen. One touch screen panel to be installed at lectern. The second touch screen panel will be installed by the classified workstation.

1.1.2.2. Contractor will install a Defense Information Systems Agency (DISA) approved Keyboard, Video, and Mouse (KVM) peripheral switch to streamline transition between video sources. The KVM switch must integrate all components on the AV system while maintaining a two (2) port physical separation between any classified and unclassified cabling and connected equipment. Contractor may refer to the DISA Secure Technical Implementations Guide (STIG). The KVM switch must be listed on the product compliance list located at https://www.niap-ccevs.org/CCEVS_Products/pcl.cfm.

- 1.1.2.3. Install one (1) GPE DaLite Advantage Deluxe Electrol 84" Projector Screen and one (1) GPE wall mount. Contractor shall provide all electrical cabling, wiring and outlets required to power to projector screen in accordance with manufacturer wiring diagram. Electrical installations must be completed by a licensed electrician and in compliance with the National Electrical Code, NFPA 70, and ANSI C2.
- 1.1.2.4. Install one (1) GPE Epson PowerLite 4650 Multimedia Projector with one (1) GPE projector mounting kit. Projector must be at optimal distance from projector screen to appropriately fill the screen. The contractor shall provide all electrical wiring, outlets and receptacles necessary for confidence monitor. Electrical installations must be completed by a licensed electrician and in compliance with the National Electrical Code, NFPA 70, and ANSI C2.
- 1.1.2.5. The system must incorporate controls to indicate on the three (3) GPE LED marques the classification category when the respective system is selected (classified or unclassified.) One marquee will be installed inside the training room and the two marques will be immediately outside the training room prior to entering the training rooms. LED marques will be GPE.
- 1.1.2.6. Contractor will provide and install four (4) in-ceiling speakers to provide audio from the sources in the training room. Speaker and associated wiring should have a Plenum rating.
- 1.1.2.7. Contractor shall provide and install all cables to be run through walls or in ceiling to eliminate tripping hazard and unsightly appearance. All associated cabling and wiring shall have a Plenum rating and will be labelled on both ends for identification purposes. A cable run list shall be provided upon completion of project.
- 1.1.2.8. The contractor shall provide and install all electrical wiring, outlets and receptacles necessary for confidence monitor, projector and projector screen. Electrical installations must be completed by a licensed electrician and in compliance with the National Electrical Code, NFPA 70, and ANSI C2
- 1.1.2.9. Contractor shall provide and install a Graphical User Interface (GUI) program that will allow the operator to control the AV system with an easy-to-use and navigable touch panel program.
- 1.1.2.10. Contractor shall Configure, program and test all AV system components and equipment. Programming will ensure AMX NXA-PDU-1508-8 will have the capability to power down AMX receivers when not in use to eliminate possibility of mixed classification signals being present at any one time.

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1.1.2.11. Contractor shall provide Government with the full and un-compiled AMX program/control/source code on a Compact Disc which must be able to be updated or modified.

1.1.2.12. Contractor shall provide a minimum 1-year service contract to include technical assistance/troubleshooting as well as preventative maintenance and repairs.

1.1.3. Program Management

1.1.3.1. The contractor shall identify a Program Manager who shall be the primary representative responsible for all work awarded under this contract, participating in Program Management Reviews and ensuring all standards referenced herein are adhered to.

1.1.3.2. The contractor shall establish and provide a qualified workforce capable of performing the required tasks. The workforce may include a project manager who will oversee all aspects of the contract.

1.1.4. System Acceptance Test (SAT)

1.1.4.1. The Government requires a SAT after installation. The SAT shall include but is not limited to:

1.1.4.1.1. Integration Testing

1.1.4.1.1.1. Testing shall ensure all integration points are functional as specified in the requirements and technical design documentation. Perform end-to-end integration test and verify data flow between the integration points with the customer.

1.1.4.1.1.2. Testing correct functioning of all control system touch panel presses, audio mixer, and digital signal processing preset.

1.1.4.1.1.3. Ensure touch panel control for proper control for displaying and controlling computers to all displays simultaneously or individually.

1.1.4.1.2. Performance Testing

1.1.4.1.2.1. Testing shall be performed with the customer to ensure that all performance requirements are met.

1.1.4.1.3. The Government requires the entire system to completely pass testing prior to final acceptance. The Contractor shall have five working days after

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completion of the SAT to research, develop, document, and resolve all discrepancies. The Contractor shall provide in writing an explanation to the Government representative of how the discrepancy will be resolved.

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SECTION II

2. **CONTRACTUAL REQUIREMENTS:** The contract service requirements are summarized into performance objectives that relate directly to mission essential items. The performance threshold briefly describes the minimum acceptable levels of service required for each requirement. A Service Summary item shall be “Unacceptable” when the contractor exceeds the allowable number of defects during the period as identified in the Performance Threshold column. A defect is a service that does not meet the requirements of the PWS. Even though the contractor is responsible for all of the requirements as listed in this PWS, the below listed services have been identified as critical to mission success.

2.1. Services Delivery Summary

- 2.1.1.** The Services Delivery Summary (SDS) will be in accordance with AFI 63-101, Acquisition and Sustainment Life Cycle Management and FAR Subpart 37.6, Performance-Based Acquisition.

Item #	Performance Objective	PWS Para	Acceptable Performance Threshold
1	Met all sub tasks under Specific Tasks	1.1.2	Zero discrepancies
2	Must pass System Acceptance Test	1.2.4	Zero discrepancies

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SECTION III

3. GOVERNMENT PROVIDED EQUIPMENT:

The following equipment shall be provided to the Contractor for installation

Item	Manufacturer	Quantity	Model	Description
1	AMX	1	FG1906-17	DVX-3250HD-T w/70v amp
2	AMX	2	FG2265-06	MST-701 7" Moderos S Series G4
3	AMX	2	FG1010-325-WH	DX-TX-DWP decora-style multiformat
4	AMX	1	FG1010-310	DX-TX Transmitter
5	AMX	4	FG1010-500	DX-RX Receiver
6	AMX	1	FG673-01	8-Port Controllable Power
7	AMX	2	FG423-83	PS-POE-AF-TC PoE injector
8	AMX	2	FG423-84	PS-POE-AT-TC High Power PoE
9	AMX	2	FG1010-721	AVB-VSTYLE-RMK w/fill plates
10	Chief	1	MTM1U	Tiltable wall mount
11	Chief	1	KITES003W	Projector Mounting Kit
12	Sound-Craft	1	RCV27	Radius Cornered, Veneered Lectern with Storage Shelf and Casters
13	Sound-Craft	1	RM15OPTION	Rack Mount, 15 Space
14	Sound-Craft	1	FDCSOPTION	Folding Document Camera Shelf, Left Side
15	Sound-Craft	1	KDOOPTION	Keyboard Drawer with Lock
16	Sound-Craft	1	RFPOPTION	Removable Front Acces Panel
17	Alpha-American	2	Alpha-213C	1 Line Color 23" long LED Marquee Sign
18	Liberty AV	1	P-HDM-M-12	40' Plenum HDMI Cable (projector)
19	Liberty AV	2	E-HD-DVI-M-02	7' Premium Molded HDMI to DVI digital Cable
20	Liberty AV	6	E2-HDSEM-M-02	6' Commercial Grade High Retention High Speed HDMI Cable
21	Middle Atlantic	1	U2V	2 RU Vented Shelf
22	Middle Atlantic	2	PD-915R	Rack Power
23	Middle Atlantic	1	FEB2	2 RU Blank
24	Middle Atlantic	4	VT1	1 RU Vent
25	Epson	1	H546A	Epson PowerLite 4650 Multimedia Projector
26	DA-Lite	1	92592R	Advantage Deluxe Electrol 84" Projector Screen.

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SECTION IV

4. GENERAL INFORMATION

- 4.1. **BASE ACCESS:** The contractor shall furnish a current Contractor Employee Roster/Access List. This list will include first and last names of employees with the last four digits of their social security number. To gain base access after award, Contractor employees must bring a valid driver's license or picture ID in addition to automobile registration and proof of automobile insurance.
- 4.2. **VEHICLE PASS:** The contractor shall obtain vehicle passes for all contractor and personal vehicles requiring entry onto Peterson SFB. Vehicle registration, proof of insurance and a valid driver's license must be presented for all vehicles to be registered in accordance with AFI 31-204. The contractor shall ensure all personnel employed in the performance of this contract, or any representative of the contractor entering the Government installation, abides by all applicable security regulations.
- 4.3. **PROJECT LOCATION:** The Project Site is the 21st Explosive Ordnance Disposal Flight, 450 W Hamilton Ave, Bldg. 625, Peterson SFB, Colorado 80914. Use East Gate, off Marksheffel Road, for deliveries. Bldg. 625 does not have a loading dock.
- 4.4. **EQUIPMENT DELIVERY, INSTALLATION and INSPECTION:** The Contractor shall be allowed to use the parking area and entry at the South end of Bldg. 625 for unloading and staging during installation. All affected areas shall be cleaned, and all debris removed at the end of each workday. All equipment shall be inspected by the Contractor and the Government prior to installation. Any and all warranty issues shall be annotated.
- 4.5. **PRE/POST INSTALLATION INSPECTION:** Conduct a Pre/Post-Installation Inspection of conference room work area. All project spaces shall be inspected for completion and damage. Any new damage shall be the responsibility of the Contractor to repair or replace at no additional cost to the Government. Pre/Post Installation Inspection shall be attended by Contractor and Government personnel.
- 4.6. **PERSONAL PROPERTY:** The building users will be responsible to relocate all personal property and extraneous items from the AV equipment areas.
- 4.7. **HOURS OF OPERATION:** Perform work under this contract during normal hours of operation, Monday – Friday, 7:00am – 4:00pm. Pre-approval must be obtained from the CO (Contracting Officer) for changes in work hours or to schedule weekend/holiday work.

The contractor is not required to provide service on the following days:

New Year's Day (January)

Labor Day (September)

Martin Luther King Day (January)

Columbus Day (October)

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President's Day (February)

Veteran's Day (November)

Memorial Day (May)

Thanksgiving Day (November)

Juneteenth (June)

Christmas Day (December)

Independence Day (July)

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Appendix A – Training Syllabus guide for System Core Features (Sample)

1. Display and Source Configuration for the AMX Touch Screen Touch Panel
 - a. Use of each touch panel.
 - b. Desired Displays –Display
 - c. Sources – Table laptop, PCs, Document Camera
2. Computer/Laptop/Panel audio control
 - a. PC/Laptop audio configuration
 - b. Panel audio input configuration
3. Projector/Projector Screen Operation