PERFORMANCE WORK STATEMENT
DIVE TRAINING DEVELOPMENT

1 GENERAL

1.01 BACKGROUND

A. The Department of Interior, Bureau of Reclamation (Reclamation), has a need for commercial dive training services for Reclamation divers who conduct underwater inspection services. The services are in support of Reclamation's mission to manage, develop, and protect water and related resources in an environmentally and economically sound manner in the interest of the American public. Reclamation underwater inspections are traditionally performed by Reclamation Engineer Divers with extensive knowledge of these facilities.

These inspections are performed at various locations throughout the Western United States with reservoir elevations up to 10,000 feet above sea level. The inspections are located across the 17 western states and often in remote locations. The data collection will occur in a variety of underwater conditions, including but not limited to, flow, turbidity and temperature.

Additionally, Reclamation divers may be called on for light Operations and Maintenance (O&M) activities. Installation of bulkheads, drilling anchors into concrete, replacing flapper valves on flange connections and other such activities.

Reclamation intends to have training developed for Reclamation divers to meet Occupational Safety and Health Administration (OSHA) standards for commercial divers in an agency specific dive training program.

1.02 LOCATION

A. Training development only.

1.03 SCOPE

A. The contractor shall develop a training program to meet the requirements of OSHA CFR 1910 Subpart T, Commercial Diving Operations. The Government's intent is to develop a training program that focuses on the diving tasks applicable to Reclamation's underwater inspections. The training shall consist of a combination of classroom instruction and field/in-water exercises designed to train to competency standards rather than a prescribed number of hours. General Reclamation underwater task list in Section 3 of this Performance Work Statement (PWS). At the end of the training, it is the Government's intent for the divers to be given a certificate as Reclamation Divers. Underwater inspection techniques and procedures will be trained through other means. CPR, First Aid, AED, and Emergency oxygen provided to be trained through other means. Reclamation does not intend for the Engineer Divers to obtain an Association of Diving Contractors International (ADCI) Commercial Diver Card at the end of this training.

1. Contractor-developed training shall cover all explicit and implied tasks required to meet the training requirements in CFR 1910 Subpart T. Reclamation diving tasks in 3.01 are the focus of the training.

    a. Three courses of training are desired.

(i) Inspection Diver: Entry level course to Reclamation's diving program. Focused on tasks required to perform Self-Contained Underwater Breathing Apparatus (SCUBA) and surface supplied diving in reservoirs, rivers, and powerplant water features. Includes the use of cameras and rulers for documenting inspection.

(ii) Working Diver: Advanced level course for Reclamation Inspection Divers to perform light O&M activities. Tasks include the use of electric, pneumatic, and hydraulic hand tools mainly for drilling into concrete and installing valves and bulkheads. The use of lift bags up to 500 lbs.

(iii) Dive Supervisor: Senior level course for Reclamation Divers to meet the requirements of Designated Person-In-Charge for diving operations. This course may be ~~caught~~ taught concurrently with either the Inspection Diver Course or the Working Diver course. Divers attending this course will be experienced divers meeting Reclamation requirements for Dive Supervisor.

2. Training audience will generally be Reclamation Engineers and engineering technicians with a good understanding of math and physics. Reclamation Diver is a collateral duty, and Reclamation is looking for as much flexibility as possible in the training schedule.

a. Maximum class size to be 20 divers. Contractor to determine the minimum class size.

b. Reclamation Divers that completes this training will initially have at least an~~d~~ open water certification from a recreational diving agency, I.E. Professional Association of Diving Instructors (PADI) or National Association of Underwater Instructors (NAUI).

c. To the greatest extent possible classroom portions of the training should be delivered in a distance learning format and provide the ability for students to test out of classroom training through College-Level Examination Program (CLEP) or equivalent assessment methods, while still receiving credit.

d. Reclamation Engineer Diver is a collateral duty so as much flexibility as is practical in the delivery of the training is desired.

1.04 REFERENCE STANDARDS

A. Use the most recent edition of the standards listed in this section.

B. Bureau of Reclamation (USBR)

1.	HECP	Hazardous Energy Control Program (lock-out/tag-out) including revisions posted at https://www.usbr.gov/power/data/fist/fist1_1/FIST_1-1.pdf
2.	RSHS	Reclamation Safety and Health Standards including revisions posted at https://www.usbr.gov/safety/rshs/index.html

C. Occupational Safety & Health (OSHA)

1. 29 CFR 1910 Regulations (Standards – 29 CFR) https://www.osha.gov/laws-regs/regulations/standardnumber/1910

1.05 DEFINITIONS

A. CO Contracting Officer

B. COR Contracting Officer's Representative

C. TPOC Technical Point of Contact (may or may not be the COR)

D. Days Calendar days, unless otherwise specified.

1.06 SCHEDULE

A. Training development shall be completed with 180 days of task order award.

1.07 PERSONNEL

A. Instructors shall meet the requirements of Association of Commercial Diving Educators (ACDE) 01-2015, and shall have a minimum of two years of full-time working experience in the field of commercial surface-supplied diving, or area of instruction taught, and meet the ADCI requirements as a dive supervisor. US Army or US navy diver instructor certification may satisfy this requirement. All instructors shall have current first aid and CPR certificates and be trained in emergency policies and procedures.

B. Student to instructor ratio.

1. Sufficient for effective instruction.

a. Classroom training: 1:20 ratio

b. Hands-on training: 1:5 ratio

2 SUBMITTALS

A. General:

1. Prepare in English. Use US customary units.

2. Identify each submittal with contract number, Register of Submittals Number (RSN), and title.

B. Government Review:

1. Submit to the COR for review and acceptance.

2. The Government will require 21 calendar days, from date of receipt, for review of each submittal or resubmitted, unless otherwise provided elsewhere in the PWS for this requirement. This required time begins when the Government receives complete sets of materials required for a particular RSN and extends through return mailing postmark date.

3. Make any revisions requested by the COR and resubmit. Show changes and revisions with a revision date. Describe reasons for significant changes in a transmittal letter.

   Final payment will not be processed until all submittals or resubmittals have been reviewed and accepted by the COR.

4. Required Submittals Table.

* Submittal Types: A – Approval, I – Information
** CO indicates Contracting Officer, COR indicates Contracting Officer Representative

RSN	Clause or Section Title	Submittals required	Due date or delivery time	Type *	Responsible code	No. of sets to be sent to. **	
						CO	COR
1	Safety and Health (CFR 1910.420)	Dive Safe Practices Manual	Submitted and accepted before starting onsite work	A	COR	0	1
2	Safety and Health (WBR 1452.223-81)	Dive Hazard Analysis (DHA)	May be incorporated into training plan.	A	COR	0	1
3	Safety and Health (WBR 1452.223-81)	Job Hazard Analysis (JHA)	May be incorporated into training plan.	A	COR	0	1
4	Safety and Health (WBR 1452.223-81)	Accident Mishap Report	Verbal within 1 hour of incident written within 24 hours.	I	COR	1	1
5	Schedule	Baseline schedule:	Within 14 days after receipt of task order award.	A	COR	1	1
6	Contractor Personnel	List of key personnel	Within 14 days after award of contract and within 14 days after award of any task order	I	COR	0	1
7	Task Order Process	Dive training program	180 Days after award	A	COR	1	1
8	Task Order Process	Course materials	180 Days after award	A	COR	1	1
9	Task Order Process	Course schedule	180 Days after award	A	COR	1	1

C. Quality Control Plan (QCP)
The Contractor shall develop and maintain an effective quality control program to ensure services are performed in accordance with (IAW) the PWS. The Contractor shall develop and implement procedures to identify, prevent, and ensure non-recurrence of defective services such as a service output that does not meet the standards of the performances associated with the submittal requirements listed in the table above.

3 EXECUTION

3.01 RECLAMATION DIVE TASKS

A. Reclamation inspections are accomplished in fresh water within the no decompression limits and no deeper than 100-foot depth after altitude correction. No mixed gases will be used, no closed-circuit systems, no low-pressure breathing gas compressors are used, no confined space entries will be performed, no penetration diving will be performed, and no contamination diving will be performed. Diving IAW US Navy tables and altitude

correction tables. Dive modes utilized are Commercial SCUBA and Surface Supplied Air Equipment.

B. Below is a list of tasks the Reclamation Divers may be required to accomplish. Specified and derivative tasks to the requirements shall be included in the training provided.

1. Altitude diving – Inspection at reservoirs up to 10,000 feet above sea level.
2. Cold water diving – freshwater diving in the winter prior to the reservoir freezing. No penetration diving under ice.
    a. Drysuit diving
3. Dive planning – intended for designated person in charge
4. Differential Pressure exposure – diving around hydropower facilities
5. Lift bags/operations
    a. Underwater rigging as required.
6. Low/zero visibility diving.
7. Photography/Video equipment usage for underwater inspection.
8. Shore/boat entry.
9. Self-Contained Underwater Breathing Apparatus (SCUBA)
    a. Full face mask
    b. Through water communications
    c. Bailout/secondary air supply
10. Surface Supplied Air Equipment
    a. Diver/Standby Diver
    b. Tender
    c. Console Operator
11. Tool use
    a. Battery, pneumatic, hydraulic tools for drilling/cleaning concrete.
    b. Hand, battery tools for flange bulkhead install/maintenance.
    c. Hand tools for cleaning and scraping concrete.

C. Tasks Reclamation intends to teach outside this course.

1. National Highway Institute (NHI) Underwater Bridge Inspection course
2. CPR, First Aide, AED, Emergency Oxygen provider
3. Underwater inspection techniques

4 MEETINGS AND CONFERENCES:

4.01 Prior to developing the training, a coordination meeting shall be conducted between the contractor, COR, and reclamation dive team leaders. Meeting shall be conducted onsite at proposed training location.

A. Agenda for coordination meeting.

1. Safety/security
2. Schedule
3. Coordination (owner, stakeholders, etc.)
4. RFIs
5. General discussions

4.02 Minutes, records, and confirmation notices: the contractor shall promptly (within 5 business days) provide a record of all meetings, discussions, verbal directions, telephone conversations, etc., participated in by the contractor or his representative(s) on matters related to the project and the work. These records, entitled "minutes", shall be numbered sequentially and shall fully identify participating personnel, subject discussed, and any conclusions reached. The contractor shall forward to the CO and COR, as soon as possible after preparation, a reproducible copy of each minute. Distribution of the minutes will be made by the government.

5 TASK ORDER PROCESS:

5.01 Upon issuance of this task order against the IDIQ, the following submittals shall be provided by the contractor that is awarded the contract.

A. Training program with course materials

1. A complete training program meeting the requirements of CFR 1910 Subpart T requirements.
2. Course materials as required. Electronic/PDF format is preferred for classroom materials.
3. Course schedule with training objectives and required support facilities/materials
   a. i.e. dive tank, boat support

6 WORK ACCESS

The Contractor shall permit the Government access to any facilities where work is being performed under this requirement, or where materials to be used under this requirement are stored, at any time during performance.

7 SECURITY

Contractors shall be escorted by a Reclamation employee at all times while within Government facilities. The Contractor shall be responsible for ensuring that its employees comply with all established security rules and regulations. Contract personnel shall not be permitted to enter established or designated restricted areas unless authorized by the Government. Entry shall be IAW and subject to the security regulations established in the area. It shall be the Contractor’s responsibility to ensure that its personnel do not enter these areas unless authorized.

8 SAFETY

A. Perform all work IAW the applicable standards from OSHA, RSHS, and HECP.

9 GOVERNMENT-FURNISHED RESOURCES

A. Upon request by the Contractor and subsequent approval by the COR, the following Reclamation resources may be made available at no charge for use in the performance of work under this requirement. Not all facilities will be able to provide government furnished resources. Resources available will need to be discussed during task order preparation/RFI period.

1. Government will provide official Bureau of Reclamation visual identity information for inclusion if contractor developed training materials.

Performance Requirements Summary

Required Services	**Performance Standard:**	**Acceptable Quality Level (AQL) of Performance**	**Surveillance Method and Positive/Negative Incentives**
Task 1 – Training Development: The Contractor shall develop dive training meeting the requirements of CFR 1910 Subpart T and encompassing the tasks in section 3 of the SOW.	Training is developed in accordance with Section 1, encompassing the tasks in section 3 of the SOW.	Training is developed within required timelines.	Positive / Negative Past Performance Review of submitted training documentation.

END OF REQUIREMENT