I. DESCRIPTION OF WORK

Positions in this banded class execute research protocols in accordance with input from scientists or members of the mission team. These positions provide the principal technical expertise and assistance on a wide range of disciplines necessary to conduct advanced underwater research or academic investigations safely and efficiently and to assist scientists in accomplishing specific research goals and objectives. Responsibilities involve operation and maintenance of equipment and instrumentation used in support of diving and in support of the underwater projects. Responsibilities may include assisting in training activities necessary to the project, as well as communication with scientists and administrators.

II. ROLE DESCRIPTIONS BY COMPETENCY LEVEL

Contributing	Journey	Advanced
Positions at this level participate as working divers on a research team using general and technical skills to effectively and safely carry out previously determined methodologies. They understand basic research study design and general methods of data collection to implement quality control procedures. They maintain dive facilities including supplies and equipment to industry standards for life support and comply with safety measures and guidelines such as annual inspections/certifications and treatment of flammable materials and hazardous waste. Standard operations, procedures and protocols are followed for documentation and logs. They recognize and initiate emergency responses as required by safety standards and	Positions at this level apply working knowledge of scientific principles or technical skills to review dive plans associated with research proposals and communicate with researchers to ensure science objectives are met. They serve as lead diver to assume responsibility for diving activities, safely plan research dives, keep dive logs, monitor life support equipment, and serve as emergency response lead. They also operate small vessels in support of diving, remotely operated vehicles, or research instrumentation. They manage and analyze data for internal and external reporting and may evaluate or modify QA/QC procedures based on changing conditions. They ensure compliance with safety standards and operational procedures and/or equipment use.	Positions at this level apply considerable knowledge and technical skills to plan research field work or propose alternative methods and techniques. Serves as a dive supervisor to coordinate missions and projects as the liaison with scientists, vessel personnel and technical personnel. They manage dive locker and ancillary facilities, including budget and personnel, and prioritize the use of all project resources. They manage QA/QC and compliance. They prepare annual and technical reports for internal and external agencies. They collaborate with peers in professional development activities. They certify others in advanced diving techniques and/or other diving related medical instruction. They may propose changes to safety
operational procedures.	They certify others in diving related emergency response medical instruction.	standards and operational procedures.

III. COMPETENCIES

Competency	Definition
Knowledge-Professional	Professional skill and knowledge of underwater diving methods and techniques applicable to scientific operations. Knowledge of the scientific and technical methods used to conduct research or accomplish various other mission objectives. Knowledge of related technology, instruments and equipment. Knowledge of safe scientific diving procedures, practices and standards in a variety of underwater environments.
Planning and Organizing Work	Ability to serve as a working diver, lead diver or supervisor, and/or mission coordinator during air, mixed gas, decompression and/or saturation research diving operations involving a variety of diving technologies.
Communication	Ability to communicate with scientists, academic administrators, mission team members, vendors and the general public. Ability to complete appropriate documentation, logs, inventory and reports.
Facility Management	Ability to provide oversight of technical programs and administrative activities of dive lockers, ancillary equipment and facilities. Ability to coordinate and manage facilities, equipment, supplies, and related resources; understands and complies with safety measures to maintain a safe working environment.
Equipment Operation & Maintenance	Ability and knowledge of appropriate procedures for using and maintaining specific equipment or technical instruments associated with scientific diving operations that meet defined quality, quantity and industry standards in a safe, efficient and effective manner.
Training/Instruction	Ability to instruct and train staff, students, scientists and other personnel in diving, equipment operation, maintenance and diving procedures within the scope of their qualifications. Ability to perform demonstration quality skills for training/instructional purposes.

Note: Not all competencies apply to every position/employee; evaluate only those that apply. Competency statements are progressive.

IV. COMPETENCY STATEMENTS BY LEVEL

Knowledge-Professional

Professional skill and knowledge of underwater diving methods and techniques applicable to scientific operations. Knowledge of the scientific and technical methods used to conduct research or accomplish various other mission objectives. Knowledge of related technology, instruments and equipment. Knowledge of safe scientific diving procedures, practices and standards in a variety of underwater environments.

Contributing	Journey	Advanced
Basic knowledge and technical skills to effectively and safely carry out previously determined methodologies.	Working knowledge of scientific diving and technical skills to modify procedures in response to changing conditions.	Full knowledge of safe scientific diving procedures, practices and standards in the planning process for field research.
Knowledge of basic study design and general diving methods of data collection applicable in scientific operations.	Ability to operate small vessels in support of diving, remotely operated vehicles or research instrumentation.	Ability to propose alternative methods and techniques.
Basic knowledge of safe scientific diving procedures, practices and standards.	Working knowledge of safe scientific diving procedures, practices and standards.	Ability to adapt work processes and methods independently based on findings and mission objectives.
Definitional		Ability to collaborate with peers and participate in professional development activities.

Definitions:

Basic knowledge - The span of knowledge minimally necessary to complete defined assignments.

Working knowledge - The span of knowledge necessary to independently complete defined assignments to produce an effort or activity directed toward the production or accomplishments of the work objectives.

Full knowledge - The broad scope of knowledge on the job that is beyond journey competencies.

Planning and Organizing Work

Ability to serve as a working diver, lead diver or supervisor, and/or mission coordinator during air, mixed gas, decompression and/or saturation research diving operations involving a variety of diving technologies.

Contributing	Journey	Advanced
Ability to serve as a working diver as part of dive team to meet project goals and safety requirements.	Ability to serves as lead diver with responsibility for all diving activities to safely plan research and operational support dives.	Ability to serve as a dive supervisor to coordinate missions and projects of varied complexity working with scientists, vessel personnel, technical personnel and others to
Ability to organize and prioritize research objectives.	Ability to coordinate and manage task-loaded divers underwater to meet project goals and safety standards.	achieve best possible scientific diving research outcomes within safety parameters.
Ability to safely monitor life support sensors and equipment and follow established safe diving protocols.	Ability to keep dive logs and records. Ability to serve as first emergency response medical	Ability to balance topside and in-water research objectives.
	lead.	Ability to participate logistical planning as liaison with scientists, vessel personnel, technical personnel and others.

Communication

Ability to communicate with scientists, academic administrators, mission team members, vendors and the general public. Ability to complete appropriate documentation, logs, inventory and reports.

Contributing	Journey	Advanced
Ability to participate with research or operations team in daily planning to ensure understanding of project and safety guidelines.	Ability to review research proposal and communicate with external program clients (e.g., scientists and vendors) to ensure science or operations objectives are met within	Ability to serve as the liaison and arbitrator between scientists, technical staff, vessel personnel and vendors.
Ability to collect and document information for internal and external reporting.	appropriate standards. Ability to organize, tabulate and analyze data	Ability to prepare annual and technical reports for internal and external agencies.
Ability to complete dive logs and records.	for internal and external reporting or general outreach activities.	Ability to prepare and present technical documents.
		Ability to prepare and present presentations to professional agencies and organizations.

Facility Management

Ability to provide oversight of technical programs and administrative activities of dive lockers, ancillary equipment and facilities. Ability to coordinate and manage facilities, equipment, supplies, and related resources; understands and complies with safety measures to maintain a safe working environment.

Contributing	Journey	Advanced
Ability to maintain dive facilities including supplies and equipment to industry standards. Knowledge of and ability to implement quality	Ability to plan and monitor resources needed to operate the dive locker and ancillary facilities.	Ability to manage dive locker and ancillary facilities, including budget and personnel.
assurances and quality control procedures. Ability to comply with safety measures and guidelines such as annual inspections/certifications, and treatment of flammable materials and hazardous waste. Ability to operate within assigned budget and identify potential cost savings.	Ability to maintain inventory control, and coordinate space, field equipment and facilities. Ability to evaluate and modify QA/QC procedures.	Ability to establish priorities in the use of resources including space, field equipment and facilities.Ability to manage QA/QC and compliance.Ability to plan and recommend changes due to new industry standards.
	Ability to coordinate and train others to ensure compliance with safety measures and guidelines.	

Equipment Operation & Maintenance

Ability and knowledge of appropriate procedures for using and maintaining specific equipment or technical instruments associated with scientific diving operations that meet defined quality, quantity and industry standards in a safe, efficient and effective manner.

Contributing	Journey	Advanced
Basic knowledge of and ability to maintain a variety of specific and technical equipment used in scientific diving operations.	Working knowledge of and experience with multiple systems required to facilitate the entire diving operations.	Full knowledge of and expertise in operating and maintaining systems and equipment within the entire diving operation.
Ability to perform established diving equipment maintenance and operating procedures.	Ability to serve as the "lead" technical person on one or more of the specific diving systems. Ability to recognize and troubleshoot unusual equipment maintenance and operation issues.	Ability to design, plan and implement new components for existing systems and/or designs and proposes completely new systems.
		Ability to serve as a resource for knowledge- related maintenance issues.

Definitions:

Basic knowledge - The span of knowledge minimally necessary to complete defined assignments.

Working knowledge - The span of knowledge necessary to independently complete defined assignments to produce an effort or activity directed toward the production or accomplishments of the work objectives.

Full knowledge - The broad scope of knowledge on the job that is beyond journey competencies.

Training/Instruction

Ability to instruct and train staff, students, scientists and other personnel in diving, equipment operation, maintenance and diving procedures within the scope of their qualifications. Ability to perform demonstration quality skills for training/instructional purposes.

Contributing	Journey	Advanced
Ability to review, maintain and document correct standard operations, procedures and protocols. Ability to perform demonstration of quality skills for training/ instructional purposes.	Ability to train others in the performance and proper use and care of specialized equipment such as dry suits, lift bags, u/w drills, photography, scientific gear, compressors and all support equipment required for safe diving operations, as well as all aspects of required safety training.	Ability to certify others in advanced scuba diving, such as nitrox, trimix, rebreathers, chamber operations, saturation and other research diving specialties, including diving related medical instruction such as DMT-A as required.
	Ability to evaluate skills for training/instructional purposes.	Ability to train others to perform training/instructional activities.

V. MINIMUM TRAINING & EXPERIENCE

High School diploma or equivalency and demonstrated ability to meet certification standards to dive through American Academy of Underwater Sciences (AAUS) or the recreational or military equivalent. Some positions may require certification as an Advanced Diving Medical Technician (DMT-A.)

Note: This is a generalized representation of positions in this class and is not intended to identify essential work functions per ADA. Examples of competencies are primarily those of the majority of positions in this class, but may not be applicable to all positions.