



Gas Monitoring Technician: Position Overview

Crescent Safety Services, the leading global outsourced provider of integrated safety and compliance solutions and products. Our Technicians work on / offshore or land-based drilling rigs, production platforms, and refineries where there is a potential for or an anticipated release of Hydrogen Sulfide (H₂S) gas or undesirable atmospheric conditions during the course of operations. Under these conditions, a regulatory, mandated requirement has been satisfied whereby a Gas Detection System and Air Breathing Safety Equipment Installation have been completed. A Gas Monitoring Technician is thereby assigned to the facility to provide 24-hour coverage of gas monitoring to determine the need for temporary suspension of operations so that further planning can be completed to determine what equipment and personnel will be needed in addition to what is on location. The Safety Technician's duties and responsibilities include but are not limited to the following:

Roles and Responsibilities:

1. Daily

- Familiarize and remain cognizant of all drilling activities which could produce a gas release; i.e., well kicks, bottoms up circulation, coring operations, well testing/logging, abnormal well conditions, etc.
- Check Gas Detection System for proper operation and perform bump tests once every 24-hour period and every 12 hours once gases have been detected. Recalibrate sensors, as required, and record that sensor checks and calibrations were conducted in the Drilling Contractor's IADC Log.
- Maintain daily contact with Company Man, reporting on status of equipment readiness, maintenance performed, and drills or training completed that day.
- Conduct Awareness and Safety Equipment Training for all new personnel arriving on the rig. Training and safety equipment orientation must be conducted within 24 hours of arrival.
- Insure all 5 minute and/or 10-minute SCBA's are functional and fully charged.
- During activities that have a potential for an H₂S release, provide continuous monitoring with H₂S Mini Check Monitors and/or Detector Tubes.
- Maintain communication with the Mud Engineer to ensure that Sulfide analysis is being performed on the mud flow-line. The Mud Engineer can often provide a precursor of information on a pending gas release.
- Maintain a running inventory of location and availability of all Safety Equipment. Maintain ongoing efforts to keep equipment clean.
- Be prepared to assess the presence of H₂S and SO₂ if the Gas Flare is ignited.
- Complete a Daily Report Log entry on each day's activities.

2. Weekly

- Conduct Weekly Drills. An H2S Drill must be conducted within 24 hours of a crew change and every 7 days thereafter during the course of their shift. Critique, Grade the Drill, and provide comments and recommendations for areas requiring improvement to the Company Man. If the Drill was found to be unsatisfactory, immediate corrective action is required with a follow-up drill conducted within 24 hours.
- Review daily and weekly documentation requirements to ensure all forms are current, accurate, and completely filled in. Store all forms for retention in their proper storage location.

Emergency Response Duties:

- In the case of an H2S release, be prepared to don SCBA equipment and perform continuous H2S monitoring until the release is stopped or the order to evacuate has been announced.
- Monitor and determine size and scope of the H2S plume and provide recommendations, based upon monitored conditions, to the Company Man so that proper course of actions can be taken to protect rig personnel from an H2S exposure.
- Ensure that all Air Breathing System Cascade Stations are placed fully on-line to provide an adequate quantity of Breathing Air to the Primary and/or Secondary Briefing Areas. Insure the same is done for other cascade stations.
- Remain in constant communication with the Company Man as a source of information and advice.
- Perform duties to assist Production Supervisor, Shop Foreman-Air Services as directed.
- Perform inspection, cleaning, servicing, reassembling and testing of shop equipment; SCBA'S, manifolds, regulators & hoses.
- Assist with pulling equipment for jobs.
- Continuously strive to upgrade skills and capabilities, to be able to handle new assignments and responsibilities consistent with company needs.

H2S Technician Training:

Requirements:

- H2S Gas Monitor Tech Training Course
- Gas Monitoring Equipment and Analysis Course
- Safe Gulf or Safe Land Training
- Offshore Water Survival Training
- Completed FA/CPR Training/AED
- Incipient Fire Fighting
- Defensive Driving
- Incident Investigation
- Confined Space Entrant/Attendant
- Marine Trash & Debris
- API RP 2-D Rigging & Slings
- Fall Protection End User

Experience:

- 5 years' experience as a land based or offshore Gas Monitoring Technician
- 5 years' experience with drilling rig operations