



Safety Technology Associate Of Science Degree

Program Goals:

Upon graduation students will be able to:

1. Research problems using basic principles of scientific concepts.
2. Communicate technical health, safety and environmental information to team members in a professional manner.
3. Understand the importance of training, continued education and professional development for career advancement.
4. Obtain gainful entry-level employment as a field safety technologist in a petroleum industry and beyond.

Program Competencies:

Graduates will demonstrate the following knowledge, skills and abilities:

1. Conduct risk assessments by performing Job Safety Analysis (JSA) and evaluating personal protective equipment (PPE), tools, equipment, and job expectations, in order to mitigate hazardous conditions and minimize the risk of incident or injury.
2. Confirm that employees are competent and have the necessary job-specific technical skills, oriented to safety and health programs and are qualified by observing work practices or reviewing training records.
3. Ensure that personnel in the work area are oriented to safety and health considerations by communicating hazardous conditions and monitoring behaviors in order to help ensure that applicable rules and emergency action plans are understood. Identify the six common types of Mobil Offshore Drilling Units (MODU), common tools, components and the advantages and limitations of each.
4. Evaluate work practices by observing employees' behavior and their use of PPE, tools, and equipment in order to minimize the risk of incident or injury and to comply with applicable standards.
5. Facilitate a positive, proactive safety culture by anticipating hazards, modeling and coaching safe behavior, reporting incidents, encouraging employee participation and communicating performance measures in order to enhance safety and health.
6. Take appropriate action when confronted with unsafe acts and conditions by exercising stop-work authority, modifying tasks, escalating issues to higher management, consulting with qualified professionals (when the matter is outside the scope of the supervisor's capabilities, etc.) and disciplining employees in order to minimize the risk of incident or injury.
7. Participate in investigations that determine causes, identify corrective actions, document lessons learned and address employee concerns using recognized investigation techniques in order to minimize the risk of workplace incidents.
8. Examine the role of the safety and health technician within the organization and industry and realize the importance to continually improve professional knowledge, skills, competencies, and awareness of relevant new developments through training, education, networking and work experiences.
9. Perform safety and health related recordkeeping in accordance with applicable standards using established procedures in order to document essential processes.
10. Coordinate operations and work processes with other supervisors by communicating effectively in order to minimize risk.