TECHNICAL EDUCATION ACADEMY

Ahmed Abdelmouiz

Instructor

A highly experienced Process Operations Engineer and professional trainer with more than 20 years of expertise in the oil and gas industry, specializing in process operations, process safety, and competency-based training. Holds a PhD in Chemistry, with research focused on the removal of CO_2 and H_2S from natural gas, and brings extensive experience in delivering both classroom-based and on-the-job training programs to develop operator competence in oil and gas production, separation, desalting, dehydration, and gas treatment processes.

Possesses strong technical expertise across a broad range of upstream and downstream operations, including desalter and dehydrator systems, with practical knowledge of dual-frequency technology for crude oil desalting and dehydration. Additional areas of expertise include oil and gas separation, stabilization, and desalting; condensate and LPG production and storage; gas compression, boosting, and dehydration using TEG and MEG systems; CO_2 capture and removal using amine solutions such as MEA and DEA; utility systems including nitrogen, oxygen, and power generation; and the operation, start-up, shutdown, and troubleshooting of both rotating and static equipment.

Has solid experience in process control and automation systems, including Yokogawa, Mark V, Mark VI, and SCADA platforms. As a certified technical instructor holding a University Teaching Certificate, has delivered a wide range of competency-based training programs covering topics such as P&ID interpretation, process simulation using Aspen HYSYS, HAZOP studies, and industrial safety procedures. Also experienced in operator competency assessment, knowledge gap analysis, and the design and administration of pre-assessments, post-assessments, and final evaluations.

In addition to training responsibilities, has participated in pre-commissioning and commissioning activities, supervised plant operations during start-up and shutdown phases, and coordinated cross-functional teams to ensure the safe, efficient, and reliable operation of production facilities. Maintains a strong commitment to process safety and HSE standards, ensuring that all training programs align with recognized industry requirements and best practices.

Combines strong technical knowledge, instructional capability, and practical field experience to deliver effective training that prepares operations personnel to manage production units with competence, efficiency, and a strong commitment to health, safety, and environmental protection.