



DR. CLARENCE RODRIGUES

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Dr. Clarence is currently an Associate Professor of Health, Safety and Environment (HSE) Engineering and HSE Engineering Degree Program Coordinator, in the Department of Mechanical Engineering, and also serves as the HSE Manager for Institute Operations at The Petroleum Institute (PI). The PI is the (university and R&D) subsidiary of the Abu Dhabi National Oil Company (ADNOC), in Abu Dhabi, UAE. In addition to establishing a university-wide HSE program and a new department (on the operations side), Dr. Clarence lead the effort to develop and get approved (on the academic side) the Master's degree in HSE Engineering that is structured for the oil, gas, petrochemical, and related industries. In his faculty capacity, in addition to managing the HSE Master's degree program, he teaches graduate and senior level courses in System Safety Engineering and Risk Management, Hazard Control in Productions Systems, Industrial Security and Disaster Preparedness, Quality Health Safety and Environment (QHSE) Program Management, and Ergonomics and Human Factors Engineering. As HSE Manager for university operations Dr. Clarence manages the Institute's HSE program overseeing a staff of 5 individuals.

Prior to his current employment with the Petroleum Institute, he was a tenured, full-professor in the college of aviation and the program chair for the BS in Safety Degree program at Embry-Riddle Aeronautical University (ERAU) in Daytona Beach, Florida, USA. He also served as a consultant for Florida-OSHA. One of his many achievements at ERAU was the development of the BS in Safety degree (that had tracks for aviation and general industry), and the safety lab. He was also instrumental in the development of the BS in Homeland Security degree. Before joining ERAU, Dr. Clarence was an associate professor of safety at the Indiana University of Pennsylvania (IUP) and was also an OSHA safety consultant for the State of Pennsylvania.

Prior to the above, he was hired out of a tenure-track position in Industrial Engineering at the College of New Jersey, to lead Campbell Soup Company's worldwide engineering program for ergonomics and system safety, which he did for 7 years. While Engineering Manager at Campbell Soup, he also held an adjunct associate professor appointment at The University of Pennsylvania's systems engineering department, teaching courses in human factors/ergonomics, manufacturing operations and project management.

Dr. Clarence has conducted professional work in the USA, UAE, Canada, England, India, Malaysia, Mexico and Scotland working in industry and academia, and as a consultant. He has made several national and international presentations and has several technical publications to his credit including the textbook *Commercial Aviation Safety*, a 6th Edition McGraw Hill publication. His areas of expertise include risk assessment, human performance and ergonomics, training effectiveness assessment, safety culture and operational excellence.

Dr. Clarence earned a Ph.D. in Industrial Engineering and an ME in Civil Engineering from the Texas A&M University, College Station, Texas, and an M. Tech. in Environmental Engineering from the Indian Institute of Technology (IIT), Mumbai, India, and a B.E. in Civil Engineering, from the University of Mumbai, Mumbai, India. He is a Certified Safety Professional (CSP), a Certified Professional Ergonomist (CPE), a Professional Engineer (PE), an OSHA General Industry Outreach Trainer, a Member of the American Society of Safety Engineers and a Member of the Society of Petroleum Engineers.