
COCCIARDI

and Associates, Inc.

Risk & Safety Management • Environmental Health
Emergency Preparedness • Safety Engineering
Consulting and Training

PROFESSIONAL PROFILE

JOSHUA RICHARDS PROJECT MANAGER – ENGINEERING

EDUCATION:

Bachelor of Science, Chemical Engineering (2011)
Widener University, Chester, Pennsylvania

PROFESSIONAL PROFILE:

Mr. Richards provides technical services in the area of occupational and environmental safety and health, air quality, and toxic materials control. His duties include screening and implementing requirements of local, state, and federal safety, health, and environmental regulations, including the Pennsylvania Department of Environmental Protection, U.S. Environmental Protection Agency, U.S. Army Corps of Engineers, U.S. Department of Transportation, and U.S. Department of Labor, Occupational Safety and Health Administration. Mr. Richards has consulted in Process Safety Management (PSM) for Highly Hazardous Chemicals/Risk Management Plan (RMP) compliance activities at petrochemical, refrigeration, and water treatment facilities throughout the country. Josh has scribed over sixty PHAs and facilitated over thirty-five, completed more than thirty compliance audits. Josh has also completed numerous NFPA/NPGA Fire Safety Analyses for LP Gas Systems as well as API 752 Facility Siting Studies for flammable and explosive consequences as well as toxic consequences. Josh previously worked as an environmental consultant in the Oil and Gas industry. His duties included regulatory assistance, Infrared GHG Monitoring, and Air Permitting Projects primarily associated with on and offshore Exploration and Production.

CERTIFICATIONS:

- Certified Hazardous Waste Operations and Emergency Response Worker/Technician/Supervisor/Incident Commander- 29 CFR Part 1910.120 and 40 CFR Part 311
- Process Safety Management Program – 29 CFR Part 1910.119(g); Risk Management Plan – 40 CFR Part 68 Process Hazard Analysis – 29 CFR Part 1910.119(e)/40 CFR Part 68.67
- Advanced Process Hazard Analysis (PHA) for Team Leaders (May 2017)

SELECT PROJECT EXPERIENCE:

- Project: Process Safety Management (PSM)/Risk Management Plan (RMP) Process Hazard Analysis
- Description: Conducted process hazard analyses for petroleum distribution and chemical facilities throughout the U.S. in accordance with OSHA's PSM for Highly Hazardous Chemicals and the EPA's RMP regulations. Expertise in the additional requirements of New Jersey Department of Environmental Protection Toxic Catastrophe Protection Act Program, Washington State Department of Ecology and Nevada Division of Environmental Protection Chemical Accident Prevention Program. Facilitated more than 100 PHA studies, via methodologies including Hazard and Operability (HAZOP) Analysis, Failure Mode and Effects Analysis (FMEA), "What If" Checklists and Layer of Protection Analysis (LOPA).
- Project: Process Safety Management (PSM)/Risk Management Plan (RMP) Compliance Audits
- Description: Conducted compliance audits for petroleum distribution and chemical facilities throughout the U.S. in accordance with OSHA's PSM for Highly Hazardous Chemicals and the EPA's RMP regulations. Expertise in the additional requirements of New Jersey Department of Environmental Protection Toxic Catastrophe Protection Act. Program audits included an evaluation of the design and effectiveness of the process safety management system and a field inspection of the safety and health conditions and practices to verify that the employer's systems are effectively implemented. Elements of an audit program include planning, staffing, conducting the audit, evaluating hazards and deficiencies and taking corrective action, performing a follow-up and documenting actions taken.
- Project: Fire Safety Analyses for Petrochemical Facilities
- Description: Completed Fire Safety Analyses (FSA) for multiple LP-Gas facilities throughout the country. Prepared FSAs in accordance with the Fire Safety Analysis Manual for LP-Gas Storage Facilities and NFPA 58. Conducted interviews with local Fire Departments and associated water departments to obtain data required for the analysis including visiting sites to collect site specific data for analyses.
- Project: API 752 Facility Siting Studies for Petrochemical Facilities
- Description: Completed API 752 Facility Siting Studies for multiple petrochemical facilities throughout the country. Obtained through interviews and onsite review information on chemical streams, occupied buildings, and determined Most Credible Events (MCEs). He has completed Consequence Modelling for the determined MCEs and graphically displayed the results of this modelling in a tabular form as well as satellite photo overlays. He has drafted findings and recommendations for the final report and presented the findings to a diverse audience of personnel including operators, maintenance techs, electrical techs, H&S personnel and Plant Managers.