

# Richard L. Barcum, CIH, CSP, CHMM

## Education:

MS, 1996, Industrial Technology Education, Safety

BS, 1991, Industrial Science, Safety

## Active Professional License/Registration:

Certified Industrial Hygienist- Comprehensive Practice (#8336), 2002

Certified Safety Professional- Comprehensive Practice (#15125), 1997

Certified Hazardous Materials Manager- Senior Level (#7050), 1996

## Relevant Project Experience

**President, Cardinal Compliance Consultants, LLC (2014 - present).** Develop and present numerous customized training classes to industrial and construction clientele. Courses include Hazardous Waste Operations (8, 24, and 40 hour), confined space entrant, attendant, and supervisor, confined space rescue, lead awareness and asbestos awareness. Developed and executed hazard monitoring for industrial and construction clientele. Contaminants monitored include antimony, beryllium, cadmium, chromium, cobalt, copper, iron oxide, lead, manganese, molybdenum, nickel, vanadium and zinc oxide, silica, and respirable dust.

**Principal, Buckeye Professional Staffing, LLC (2015 – present).** Provide professional placement services for short term, long term or permanent positions. Place professionals specializing in primarily the health and safety and construction industry, including Project Managers, Project Engineers, Quality Control, Health and Safety Officers, Project Superintendents, Environmental Technicians, etc.

**Vice President/Safety Director, TTL Associates, (2011 – 2016).** Responsible for the management of EHS consulting projects grossing > \$6M annually for a nationally recognized SDVOB. Projects included the anticipation, recognition, evaluation and control of airborne hazards including asbestos, antimony, beryllium, cadmium, chromium, cobalt, copper, iron oxide, lead, manganese, molybdenum, nickel, vanadium and zinc oxide ad, beryllium, cadmium. Supervised a staff of over 40 ES&H professionals. Clients included Dept. of Veterans Affairs, Department of Navy and various commercial clients.

**Division Health and Safety Manager, Johns Manville, Engineered Products Americas Division (2011-2013).** Responsible for the division-wide development, implementation and enforcement of a proactive health and safety program. Performed periodic health and safety inspections. Conducted air monitoring for a variety of contaminants including silica, lead, formaldehyde, and respirable dust.

**President, Hawkum, LLC (2007 – 2013).** Developed and presented numerous customized training classes to industrial and construction clientele. Courses included Hazardous Waste Operations (8, 24, and 40 hour), confined space entrant, attendant, and supervisor, confined space rescue, lead awareness and asbestos awareness. Developed and executed hazard monitoring for industrial and construction clientele. Contaminants monitored include lead, cadmium, manganese, silica, respirable dust.

## Experience:

- 28 years of experience in the anticipation, recognition, evaluation and control of workplace hazards
- 28 years of experience developing and implementing H&S programs at hazardous waste sites nationwide for the US Navy (EFA Midwest EJOCs I & II), USACE, VA and other federal clients.
- 28 years of experience with federal, state, and local occupational safety and health and environmental regulations.
- 28 years of experience developing PPE and air monitoring programs for work involving solvents, POLs, toxic metals, acids/bases, reactive, PCBs, UXO/OE, pesticides, asbestos, and lead-based paint.
- Specialized training in personal & respiratory protective equipment (PPE Levels A, B, C, and D), safety program management, hazard communication, ergonomics, hearing conservation, lockout/tagout, fire safety and electrical safety.
- Certified Industrial Hygienist – Comprehensive Practice (#8336), 2002, American Board of Industrial Hygiene
- Certified Safety Professional – Comprehensive Practice (#15125), 1997, Board of Certified Safety Professionals
- Certified Hazardous Materials Manager – Senior Level (#7050), 1996, Institute of Hazardous Materials Management

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**Corporate Health and Safety Director, TolTest, Inc. (1999-2011).** Responsible for corporate-wide development, implementation, and enforcement of a proactive health & safety (H&S) program. Managed all aspects of safety program including Respiratory Protection Program, Hazard Analyses, Program-/Project-Specific H&S Plans, and the Safety Training Program. Provides direct support of safety programs to include unannounced safety audits in support of federal contracts. Solicits and integrates ideas and information from personnel to ensure a high level of safety awareness and enforcement at all levels through defining the scope of work, identifying and analyzing hazards, identifying and implementing controls, and through performing the work. Updated training, performed periodic safety audits, and provides support for project managers, superintendents, and workers. Has broad-based federal and state regulatory experience including extensive work with OSHA Construction and General Industry Standards, RCRA, ANSI, NFPA, and Worker's Compensation Law. Projects included the historical renovation of over 60 buildings contaminated with lead-based paint. Provided oversight and direction for all aspects of the lead program including training, biological monitoring, and the collection of over 2,000 lead in air samples and over 1,000 lead wipe samples.

**Regional Safety Manager, IT Group, Inc. (1998-1999).** Developed, implemented, and managed the H&S program for a 9-state, 250-employee region for a large environmental remediation firm. Developed and delivered all OSHA-required training including 40- and 8-Hour Hazardous Waste Operations, Confined Space Entry, Fall Protection, Respiratory Protection, Hazard Communication, and Bloodborne Pathogens. Developed H&S plans for environmental projects including facility decontamination and demolition; hazardous waste landfill excavation, capping, and O&M; and installation of contaminated groundwater treatment systems. Managed several Site H&S Officers providing H&S support to environmental remediation projects. Project clientele included USACE, DOE, USAF, Army, and several commercial clients.

**Safety Manager, IT Group, DOE, Rocky Flats Environmental Technology Site, Environmental Remediation Contract, Colorado (1998-1999).** Responsible for development and implementation of a H&S program, including the Respiratory Protection Program for a competitively bid, 3-year contract, including the development of all H&S Plans. This contract included the successful completion of TOs involving the installation of three contaminated groundwater treatment systems and the modification of an existing facility to allow for the storage of drums containing mixed (hazardous/radioactive) waste.

**Safety Supervisor, USACE, Total Environmental Restoration Contract, Pueblo Chemical Depot, Fort Carson Army Depot, Rocky Mountain Arsenal, Colorado (1995-1997).** Responsible for the implementation of the corporate H&S program (including the Respiratory Protection Program). Responsible for assistance with cost estimating for environmental remediation TOs, asbestos abatement, and project management. Administered training and biological monitoring programs. Performed routine H&S inspections to ensure compliance with OSHA and USACE H&S regulations. TOs successfully completed under this contract included demolition of 40 buildings contaminated with crystallized trinitrotoluene (TNT) and dinitro toluene (DNT), lead, cadmium, chromium, silica, nitric acid, and asbestos; the bioremediation of TNT-contaminated soils; the excavation and capping of three hazardous waste landfills; the demolition of three 100,000-gallon ASTs and a hazardous waste incinerator; and the remediation of two solar evaporation ponds. All sites were contaminated with varying levels of pesticides, lead, cadmium, hydrazine, and ammonia. Conducted all air monitoring.

## Training:

- Authorized OSHA 10 and 30-hour Construction Safety Trainer
- Authorized OSHA 10 and 30-hour General Industry Safety Trainer
- Management Oversight and Risk Tree (MORT) Analysis
- Dept. of Energy Radiation Worker II
- OSHA 40 hr. HAZWOPER
- OSHA 8 hr. HAZWOPER Supervisor
- OSHA 8 hr. HAZWOPER Refresher
- OSHA HAZWOPER Technician
- OSHA HAZWOPER Incident Commander
- OHIO BWC Controlling Workers Comp. Costs Confined Space Entrant, Supervisor, Attendant, Rescuer

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**Safety Supervisor, US Navy, Environmental Remediation Contract, Johnston Atoll (1994).** Responsible for the implementation of corporate H&S program for TO for the removal, stabilization, and solidification of approximately 15,000 cubic yards of lead-contaminated ash. Administered training and biological monitoring programs. Conducted all air monitoring. Performed routine H&S inspections to ensure compliance with OSHA regulations. TO was executed with personnel in Level C PPE in the summer months.

**Safety Supervisor, USACE/EPA, Bunker Hill Mine Superfund Site, Kellogg, Idaho (1994).** Responsible for the implementation of corporate H&S program for TO that consisted of the demolition of 80 buildings contaminated with lead, cadmium, arsenic, zinc, chromium, mercury, asbestos, hydrochloric acid, and sulfuric acid. Administered training, medical surveillance, and biological monitoring programs. Conducted air monitoring for all contaminants. Performed routine H&S inspections to ensure compliance with OSHA and USACE regulations.

**Safety Supervisor, US Navy, Environmental Remediation Contract, New London Submarine Base, Connecticut (1995).** Responsible for the implementation of a H&S for TO encompassing the excavation of soils contaminated with lead, PCBs, and polyaromatic hydrocarbons (PAHs). Conducted air monitoring, administered training program, and performed routine H&S inspections to ensure compliance with OSHA regulations.

**Safety Supervisor, Ames Laboratory, Ames, Iowa**

Safety Supervisor for USACE/DOE contract which involved the excavation of eight (8) landfills created during research for the Manhattan Project, contaminated with radioactive materials, pyrophoric metals and asbestos at the Ames Laboratory, including the excavation of over two hundred (200) drums of radioactive waste and pyrophoric metals and over thirty (30) laboratory packs of miscellaneous chemicals. This project required regular interaction with the public and media in the form of bi-weekly status Question and Answer forums. This project included a State of Iowa OSHA inspection (#115072282) which resulted in no safety and health violations.

**Safety Supervisor, Weldon Spring RAP, Weldon Spring, Missouri**

Safety Manager for DOE contract which consisted of the decontamination and dismantlement of eleven (11) buildings contaminated with radioactive waste and asbestos at the Weldon Spring Remedial Action Project Superfund Site.

**Safety Engineer, Idaho National Engineering Laboratory, Idaho Falls, Idaho**

Publications/Presentations:

- Presenter - 2003 Ohio Self Insured Conference, Columbus Ohio – Accident Reconstruction – What You Do in the First 5 Minutes Can Save You \$5 Million.
- Presenter - 2004 Sheakley Uniservice Safety Day, Maumee, Ohio – Effective Use of a Safety Program to Avoid Costly Workers Compensation Claims
- Presenter - 2004 Sheakley Uniservice Safety Day, Maumee, Ohio – How to Prepare for An OSHA Inspection
- Presenter – 2011 Toledo Safety Day, Toledo, OH – Occupational Exposures – Lead, Silica, and Hex
- Presenter – 2012 Toledo Safety Day, Toledo, OH – Hearing Conservation
- Presenter – 2014 Toledo Safety Day, Toledo, OH – Noise Monitoring
- Presenter – 2015 Toledo Safety Day, Toledo, OH – Selling Safety as a Value
- Technical Reviewer – Construction Safety Management and Engineering, 1<sup>st</sup> Edition, American Society of Safety Engineers, Darryl C. Hill, CSP Editor; Published 2004