

## **DAVID B. RICHARDSON, CSP**

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### **SKILLS:**

- Industrial Safety Management
- Root Cause Accident Investigations
- Compliance Auditing
- Loss Prevention Audits
- Fire and Explosion Prevention
- Worker's Comp Administration
- Safety Committee Development
- VPP Program Administration
- Industrial Hygiene
- Statistical Analyses / Leading Metrics
- Chemical Process Safety
- Radiation Safety
- Computer Literacy
- Programs / Procedure Writing
- Behavior / People-Based Safety
- Training Program Development
- Disaster Planning / HazMat
- Emergency and Rescue Programs

### **EDUCATION:**

- MBA** – William Woods University, Fulton, MO. December, 1999.
- MS** – Industrial Safety, Central Missouri State University, Warrensburg, MO. August, 1975.
- BS** – Health Science major / Driver & Traffic Safety minor, BYU, Provo, UT. August, 1974.

### **PROFESSIONAL:**

- CSP (x4)** – Engineering, Management, Systems Safety, Comprehensive Practice Board of Certified Safety Professionals, Savoy, IL.
- ASSE** – Professional Member; American Society of Safety Engineers, Des Plaines, IL.

### **EXPERIENCE:**

#### **Workers Compensation Fund,**

#### **Senior Safety and Health Consultant, 2006 – Present.**

Safety and health consultant providing loss control, training, and safety services to assigned entities. Service plans were prepared and serviced for fifty to sixty large clients. Additional services were provided as needed for over 200 clients. Provided training instruction for all WCF clients at open seminar courses. Specialty areas included heavy construction, commercial construction, residential construction, mining, trucking, municipal, manufacturing, food service, and health care providers. Initiated MSHA training plan application and approval for WCF. Developed leading safety metric tracking system for WCF clients.

#### **Professional Safety Consultant, 2001 – 2006.**

Consultant servicing industrial, construction, mining, insurance, commercial, manufacturing and municipal accounts. Project safety management for major construction and industrial sites. MSHA and OSHA compliance. Worker's compensation oversight. Consultant to field engineers on structural safety standards. Safety coordinator for new gas pipeline and electrical equipment testing. Prepared Job Safety Analyses, Area Hazard Analyses and safe work performance metrics. Safety oversight for confined space, scaffolding and critical lifts.

#### Projects included:

- Site Safety Supervisor, Belcan Services, Monsanto plant construction, Movilita, Romania.
- Site HSE Supervisor, Jacobs Engineering, Owens-Corning plant reconstruction, Mt. Vernon, OH.
- Safety Professional, Construction Safety Associates, Owens-Corning line rebuild, Kansas City, KS.
- Safety Professional, Construction Safety Associates, Ford Truck plant outages, Kansas City, MO.
- Safety Consultant with 3-E Safety Services and Hankins Roofing Co., Kansas City, MO.
- Safety Professional for Rand & Son Construction at the Honeywell federal project, Kansas City, MO.
- MSHA safety training consultant for Borton Construction, Holcim cement plant site, Holly Hill, SC.
- Safety Manager for Holcim (US) Inc. cement plant and quarry equipment construction, Holly Hill, SC.
- Other spot insurance audit contracts completed for NJ & Associates and Allan Safety Consultants in NC, TN, ID, OR, WA, MT, CO, NM, NE, IA, KS and AR.

#### **Associated Electric Cooperative, Inc. Thomas Hill Energy Center, Clifton Hill, MO.**

**Manager, Safety & Training**, Mining Division, 1990 – 1993.

**Safety Coordinator**, Power Division, 1993 – 2001.

Safety and Training Manager at Mining Division until 1993 mine closure. MSHA training instructor through 1996 during reclamation. Transferred to Power Division. Three million ton-per-year surface bituminous coal mine with three BE draglines and 450 employees. Coal-fired 1150-MW power plant with 230 employees.

- **Improved Safety Committee functions.** Established follow-through-based agendas. Involved managers in meetings and activities. Resolutions changed from two to six months, to two to three weeks. Strong team culture established that continued through five-year mine reclamation. Recordable injuries dropped from over twenty in 1991, to less than two per year. MSHA compliance improved from 24+ citations in 1990, to none during the final year of MSHA jurisdiction.
- **Administration of self-insured Worker's Compensation program for Mine and Power Divisions.** Provided medical oversight as management coordinator for injured employees seeking medical care. Coordinated with local and specialist medical providers for care and return-to-work provisions.
- **Effective use of computer spreadsheets to streamline training scheduling.** Initiated the use of Quattro Pro spreadsheets. Reduced the scheduling process for MSHA training from two months to one week.
- **Used trend analysis to identify risk trends and reduce injury rates.** Using national data, found that coal mine eye injury rates were ten times the average. Used data to convince management and union leaders of the need for 100% eye protection. Rates reduced to below national averages.
- **Coached team-based VPP program.** Helped train 80+ volunteers in the startup phases of the Plant VPP program. Instructed over 14 teams in technical aspects of safety and OSHA compliance.
- **Advisor on coal dust ignition prevention.** Researched coal dust combustibility through FM Engineering and NFPA resources. Taught principles to all Plant employees.
- **Used industrial hygiene sampling skills** to quantify crystalline silica and carbon monoxide emissions from boiler leaks.
- **Adopted behavior-based techniques.** Used DuPont STOP, A-B-C analysis, and the VPP structure to focus on risk identification, measurement and control. Much improved employee involvement.
- **Assisted with chemical process safety management.** Procedures developed for liquid sulfur dioxide, anhydrous ammonia, and chlorine. Advisor for confined space sludge cleanup projects involving potential hydrogen sulfide gas pockets. Worked with coal handling department to determine source of and controls for sporadic methane accumulation/oxygen depletion in feeder tunnels.

**Kerr-McGee Coal Corporation, Gillette, WY.**

**Safety Supervisor, 1981 – 1990.**

Started 1981 at Clovis Point Mine (4 million tons per year, 180 employees). Promoted in 1986 to Jacobs Ranch Mine (17 million tons per year, 370 employees). Non-union, truck/shovel operations.

- **Reduced risks using mine-wide inspections and focused training.** Training on specific needs, such as ergonomics, was added to standard MSHA lesson plans. Reduced overall injury frequency rates from over 12.0 to less than 4.0. MSHA compliance successfully maintained less than four citations per year.
- **Used DuPont STOP program to apply behavioral safety.** Assisted mine crews in reaching up to a 90% efficiency rate. Demonstrated a correlation between crew safety involvement and injury rate drops.
- **Member of spontaneous coal combustion research team.** Research goal to prevent spontaneous coal fires in prep plants, mine pits, and on mobile equipment. Changed mine blasting plan to minimize loosened coal exposure time. Covered prep plant beams with angled surfaces to prevent dust accumulations. Installed heated mobile equipment wash building. Nuisance spontaneous fires were cut approximately 70 – 80%.

**Kennecott Minerals Company, Bingham Canyon Mine, Copperton, UT.**

**Sr. Safety and Health Engineer, 1979 – 1980.**

Truck/train/shovel copper mining operation employing 3,000 union employees.

**United Nuclear-Homestake Partners, Grants, NM.**

**Safety Director, 1977 – 1979.**

Uranium mining, trucking, mill operations involving 750 non-union employees. Seven underground mines located 30-35 miles north of the mill. Department head over staff of seven.

- **Directed transition of mine safety programs during the MESA (Dept of Interior), to MSHA (Dept of Labor) change.**
- **Administration of Worker's Compensation program.**

**FMC Corporation – Industrial Chemicals Division**, Green River, WY.

**Industrial Hygienist/Safety Engineer**, 1975 – 1977.

Underground trona mining, surface soda ash mill and chemical plant operation with 1100 employees.

**Missouri Safety Center, Central Missouri State University**, Warrensburg, MO.

**Driver Training Instructor**, CMSU Graduate Assistantship, 1974 – 1975.

Conducted 12-week driver safety training courses at the CMSU driver training center. Assigned to the adult and foreign student instruction group. Classes included 30 students per quarter who were learning to drive for the first time. Instruction included six hours of behind-the-wheel experience for each student on the driving range and public highways. Duties also included periodic instruction of Missouri Highway Patrol officers in evasive driving maneuvers and skid control maneuvers on a controlled course at the CMSU driving range. Additional duties at the Missouri Safety Center included assisting with CMSU safety colloquiums and seminars.

**Gold Cross Ambulance / Intermountain Ambulance**, Salt Lake City, UT.

**Emergency Medical Technician, Ambulance Driver**, 1973 – 1974.

EMT providing emergency medical care and transportation to injured and ill patients in the Salt Lake City area. Served as a dispatcher, driver, and EMT for Intermountain Ambulance until the company closed in 1974. Transition to Gold Cross Ambulance in 1974 as an EMT.