

Joseph DeMaria, Ph.D., CSHM, CHCM, MIIRSM
Environmental, Health and Safety Consultant

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Curriculum Vitae

Profile

Dr. DeMaria is a self-motivated business professional with multiple college degrees, national board certifications and a respected 30+ year career in the Environmental, Health and Safety profession.

Dr. DeMaria has set the standard for excellence in providing targeted safety consultations to business and industry and expert witness support to the legal profession. Many diversified companies have also been provided clear and documented direction for maintaining regulatory compliance and for encouraging a long-lasting safety culture.

Battle tested. Dr. DeMaria has been certified in district and federal courts as an expert witness in the fields of occupational safety and health and human factors engineer. He possesses strength in formulating expert opinions and conclusions within the framework of detailed technical reports. He also has the keen ability to maintain focus on the significant issues when cross-examined, combined with an accessible "people-person" persona that is highly effective with juries.

Summary of Qualifications

- Provides EHS technical guidance directed towards accident prevention and elimination of hazards
- Coordinates the application of site specific EHS and physical security policies, procedures and processes
- Conducts mishap and breach of security investigations, recommends and monitors corrective actions
- Facilitates root cause analyses of significant injuries, incidents and property loss to prevent recurrence
- Plans, schedules and provides EHS training on various subjects related to EHS requirements
- Tracks EHS and security compliance activities, generates and maintains related metrics and sets goals
- Communicates Behavior-based safety programs and principals to forge a long-lasting safety culture
- Performs ADA and ergonomic assessments and provides technical guidance to employees to minimize risks
- Reviews new chemicals to ensure controls are established prior to workplace introduction and use

Skills Summary

- **US Regulatory Standards**
 - US Department of Labor (DOL), Occupational Safety and Health Administration (OSHA)
 - OSHA 29 CFR Part 1910 – General Industry Regulation
 - OSHA 29 CFR Part 1926 – Construction Industry Regulation
 - US Department of Energy (DOE) 10 CFR Part 851 – Worker Safety and Health Program
 - US Department of Justice (DOJ) 28 CFR Part 36 – ADA Standard for Accessible Design
 - US Department of Transportation (DOT) 49 CFR – Transportation Regulation
 - US Environmental Protection Agency (EPA) 40 CFR – Protection of the Environment Regulation
- **US National Consensus Standards**
 - American National Standards Institute (ANSI) – Safety Standards
 - National Fire Protection Association (NFPA) 101 – Life Safety Code
 - Institution of Electrical Engineers (IEE) – National Electrical Safety Code (NESC)
- **International Standards**
 - International Code Council (ICC)
 - International Building Code (IBC)
 - International Organization for Standardization (ISO)
 - 14001 – Environmental Management Systems
 - 18001 – Occupational Health and Safety Management Systems

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Certifications and Designations

- Certified Hazard Control Manager (CHCM) – License No. 2617
- Certified Safety and Health Manager (CSHM) – License No. 1622
- Authorized OSHA Outreach Trainer – Completion of OSHA 500 and 501 Courses
- Certified, Hazardous Waste Operations and Emergency Response (HAZWOPER)
- International Institute of Risk and Safety Management – Membership No. 201956 (European Union)
- Trial Certified Expert Witness – State of Nevada District Court, and U.S. Federal Court

Education

Columbia Southern University – Orange Beach, Alabama
Ph.D. – Occupational Safety and Health Engineering
Honors: Magna cum Laude

Webster University – St. Louis, Missouri
M.A. – Management
Honors: Magna cum Laude

Embry-Riddle Aeronautical University – Daytona Beach, Florida
B.S. – Professional Aeronautics
Honors: Magna cum Laude

Security Clearances – Department of Defense (DOD)

- Top Secret (TS), Level III – Inactive
- Single Scope Background Investigation (SSBI) – Inactive
- Sensitive Compartmented Information (SCI) – Inactive

Ancillary Safety and Health Training and Education

- 2008 - OSHA #503: Update Instructor in Occupational Safety and Health for the General Industry
- 2005 - National Fire Protection Association – Life-Safety Code Course
- 2003 - OSHA #500: Outreach Instructor in Occupational Safety and Health for the Construction Industry
- 2002 - OSHA #501: Outreach Instructor in Occupational Safety and Health for the General Industry
- 2001 - Applied Ergonomics/Human Factors Seminar
- 2001 - National Fire Protection Association – Life-Safety Code Course
- 1999 - Supervisor Training in Accident Reduction Techniques (START)
- 1997 - National Fire Protection Association – Electrical Safety Course
- 1995 - National Fire Protection Association – Life-Safety Code Course
- 1995 - Hazardous Waste Operations Course/Certification
- 1994 - FAA Basic and Advanced Airport Safety Operations Course
- 1994 - Permit-Required Confined Space Course
- 1991 - Human Factor / Systems Safety Engineering Course
- 1989 - Applied Hazards / Human Reliability Analysis Course
- 1988 - OSHA Accident Investigation Course #202a
- 1987 - Ground Safety Management Course, University of Washington, College of Engineering
- 1986 - US Air Force Inspection Qualification School
- 1984 - Architectural Blueprint Reading Course, City College of Chicago
- 1983 - OSHA Electrical Standards Course #203
- 1983 - OSHA Construction Standards Course #200

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Professional Experience

1996 – Present Americana Safety Associates, Inc. – Las Vegas, Nevada
President, Principal Consultant – Environmental, Health and Safety

- Provides litigation support to plaintiff and defense attorneys in premises liability and personal injury cases.
- Provides regulatory compliance and on-site audit services to ensure businesses are made aware of any EHS deficiencies and instructed how to comply with applicable regulatory standards and codes, national consensus standards and industry best practices.

Noteworthy accomplishments:

- (1) Certified as an “*EHS Expert Witness*” by federal and Nevada district courts;
- (2) Invited guest speaker on EHS issues on FOX-TV Network and several local Las Vegas television stations;
- (3) September 2008, invited to Capitol Hill in Washington D.C. to brief US Congressman Ted Poe (TX) on our joint concerns for the safe disposal of mercury from spent fluorescent lamps; and
- (4) October 2008, invited to the California state capitol in Sacramento at the invitation of Senator George Runner, Vice-Chairman of California’s Environmental Affairs Committee. Sen. Runner was equally interested in learning of the mechanical technology I am collaborating on that will safely contain mercury from spent fluorescent lamps.

2002 – 2008 United Healthcare – Las Vegas, NV – Corporate Safety Officer

- Administered comprehensive safety and security procedures and initiatives to support business objectives
- Oversight responsibility for physical security posture at 13 geographically separated facilities
- Leadership of direct-report staff and mentor to >100 additional duty safety and health representatives
- Established best practices to cultivate a long-lasting safety and security culture for >3,500 employees
- Occupational injuries and workers’ compensation claims declined each year under my program direction
- Led a corporate team that created disaster preparedness business continuity and emergency actions plans
- Managed post-accident drug/alcohol screening, worker’s compensation and early return-to-work programs
- Performed thorough Environmental, Health and Safety (EHS) inspections and physical security audits
- Industrial Hygiene: Periodic samplings of gas and interior sound and lighting levels for OSHA compliance
- Health Physics: Developed the Radiation Protection Plan; Member of the radiation safety committee
- Briefed senior management quarterly on annual program goals, objectives and mishap analysis data

Major accomplishments:

- 1) Oversaw the safety and security of 3,500 employees at multiple work locations. I went beyond compliance with OSHA regulations and examined workers' compensation claims to find high-risk areas. This strategic plan helped identify faulty work practices, equipment and physical property hazards; and
- 2) Initiated an ergonomic program. Initially, 77 percent of the employees assessed experienced varying degrees of physical discomfort. After training and changes to the work environment and equipment, 90 percent of those employees reported the reduction or elimination of symptoms and time off from work.

1999 – 2000 College of Southern Nevada – Las Vegas, NV – Assistant Director, Safety & Security
1998 – 1999 Walter Construction (USA) – Renton, WA / Las Vegas, NV – Project Safety Engineer
1996 – 1998 Bombard Electric – Las Vegas, Nevada – Safety Director
1995 – 1996 Rio Suite Hotel and Casino – Las Vegas, Nevada – Risk Manager

Active Duty Military

1975 – 1995 US Air Force, – Environmental, Health and Safety Superintendent

(1979–1986) EHS Specialist and Manager – US & NATO military installations, Mediterranean area

Major accomplishment:

Planned and organized the first joint US and NATO ally safety and health conference.

(1986–1990) EHS Inspector – US Air Force Inspector General's staff

Major accomplishment:

Hand-picked for this select assignment to provide oversight and to grade the effectiveness of environmental, health and safety program management at US Air Bases worldwide.

(1990–1995) EHS Superintendent – National Security Agency (NSA) projects

Major accomplishments:

Worked in concert with private contractors such as Boeing, Northrop Grumman and Lockheed Martin, MIT, Bechtel and the EG&G Special Projects Division on Department of Defense projects at multiple facilities simultaneously. Participated in the innovative and safe use of high-performance optical systems and complex chemical engineered materials for aerospace, environmental and military applications.

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Professional Affiliations

- National Fire Protection Association
- National Safety Management Society
- American Society of Safety Engineers
- American College of Forensic Examiners
- Institute for Safety and Health Management
- Board of Certified Hazard Control Management

Authored Publications

Published Technical Books

Machine Guarding Handbook: "The Ultimate Illustrated Safety Guide" Published 2005
Accident Prevention Handbook: "Universal Strategies and Plans" Published 2003
The Human Factors Handbook: "Truth or Consequences" Published 1998

Developed Written EHS Plans and Programs

Accident Prevention and Investigation Guide	Hearing Conservation Program
Bloodborne Pathogens Program	Injury and Illness Prevention Program
Concrete and Masonry Work Plan	Laboratory and Chemical Safety Program
Confined Space Entry Program	Ladder and Stairway Safe Work Plan
Control of Hazardous Energy Program	Laser Safety Program
Crane, Hoist and Rigging Safety Plan	Lead Safety Plan
Electrical Safety Program	Personal Protective Equipment Plan
Emergency Action Plan	Radiation Safety Manual
Ergonomics Work Plan	Respiratory Protection Program
Excavation and Trenching Program	TB Respirator Protection Program
Fall Protection Work Plan	Scaffolding Safety Program
Fire Prevention Plan	Substance Abuse Program
Flammable Storage Program	Welding Safety Program
Forklift Safety Program	Workplace Violence Prevention Plan
Hazard Communication Program	Written Workplace Safety & Health Program

Created PowerPoint EHS Training Presentations

Accident Investigation Training	Hazardous Materials Safety
Accident Prevention Signs/Tags	Hearing Protection Training
Asbestos Safety Training	Hexavalent Chromium Training
Bloodborne Pathogens Training	Indoor Air Quality Course
Chemical Spill Safety Training	Introduction to OSHA
Combustible Liquids Training	Job Hazard Analysis Course
Competent Persons	Laser Safety Training
Compressed Gas Cylinders	Lead Exposure Safety Training
Concrete and Masonry Safety	Lifting and Your Back
Confined Space Entry	Liquid Nitrogen Safety Training
Construction Safety Management	Machine Guarding
Control of Hazardous Energy	Office Safety Awareness
Crane Safety Refresher Course	Pandemic Preparedness
EAP Response Team Training	Personal Protective Equipment
Electrical Safety 101	Radiation Safety Training
Emergency Exit Routes	Respirator Protection
Ergonomics 101	Respirator Protection Training
Ergonomics 102	Responsibilities for Supervisors
Excavation Safety Training	Safety Audit Training
Fall Protection Training	Safety Representative Training
Forklift Safety Training	Scaffolding Safety Training
Hand and Power Tool Safety	Slip, Trip and Fall Prevention
Hazard Communication Training	Stairway and Ladder Safety
Hazard Vulnerability Assessment	Walking and Working Surfaces

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Curriculum Vitae Addendum

Construction & Special Operations Projects: Environmental, Health and Safety Oversight

2002 – 2008 United Healthcare, Inc. – Corporate Safety Officer
Medical and Administration Facility Construction

Construction Projects:

- Medical outpatient and surgery center facilities
- Office buildings and medical suites
- Printing plant

Major accomplishment: During the pre-construction phase of the outpatient surgery center, Dr. DeMaria identified and corrected a major architectural design flaw that saved the company over \$500,000 in unnecessary equipment purchases and construction costs. Project was completed on time and under budget.

1999 – 2000 College of Southern Nevada – Assistant Director, Safety and Security
Educational and Institutional Facility Construction

Construction Projects:

- Computer laboratory and classroom building
- Dental school and laboratory building
- Nursing school and laboratory building
- Campus administration and faculty building

Major accomplishment: Environmental health and safety oversight of these major multi-million dollar construction projects resulted in zero accidents of civilian contractors and complete compliance with city, state and federal regulatory standards. Projects were completed on time and within budget.

1998 – 1999 Walter Construction (USA) – Project Safety Engineer
Road and Bridge Construction Project

Construction Project:

- Four concrete pre-cast segmental bridges at the US-95/I-15 freeway interchange in Las Vegas, NV.
- Each segment, weighted 75 US tons, were pre-cast at an off-site industrial complex, and trucked to the project work sites.

Major accomplishment: Over a one-year period, segments were hoisted and joined into place utilizing a one-of-a-kind multi-radius articulated truss without serious injuries or incidents. The project was completed on-time and on-budget. Project was completed on time and under budget.

1996 – 1998 Bombard Electric – Safety Director
Hotel and Casino Construction Projects

Construction projects:

- New York–New York Hotel and Casino
- Rio Suite Hotel and Casino expansion
- Sunset Station Hotel and Casino
- Paris Hotel and Casino

Major accomplishment: Dr. DeMaria oversaw the safety and health of more than 800 electricians during construction of these four multi-million dollar hotel and casino projects. During each of these new projects, he participated in comprehensive OSHA inspections that netted his company “zero citations and penalties.” According to Nevada OSHA District Manager Jimmy Garrett “this was unprecedented for a major project sub-contractor.”

Renovation projects:

- MGM Grand Hotel and Casino
- Boulder Station Hotel and Casino
- Texas Station Hotel and Casino
- Main Street Station Hotel and Casino

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1990 – 1995 United States Air Force – Environmental, Health and Safety (EHS) Superintendent
Special Operations: National Security (black world) Projects

Major accomplishments: In 1989, while on active duty and assigned to the US Air Force Inspector General's staff, Dr. DeMaria was hand-picked to be the US Air Force's Environmental, Health and Safety Superintendent at the Nevada Test Site. He managed the safety and health of all US military and civilian defense contractor's workforce dispersed in remote areas of the test site.

Dr. DeMaria worked in concert with safety engineers from Boeing, Northrop Grumman and Lockheed Martin, MIT and the EG&G Special Projects Division on two multi-billion dollar classified aircraft projects during all phases of airframe manufacturing, avionics and flight testing. Environmental, health and safety challenges arose and were satisfied by the collaborative efforts of Dr. DeMaria and other civilian safety engineering experts.

1975 – 1989 United States Air Force – EHS Technician, EHS Manager and EHS Inspector
Varied Construction and Renovation Projects

During Dr. DeMaria's military career, he was exposed to many different types of construction projects both here in the United States and abroad. He was fortunate to have had tutelage from more experienced safety professionals that helped guide and hone his skills into the seasoned and well-respected safety professional he is today.

Construction projects:

- US and NATO airfield runway expansions and terminal facilities construction
- Aircraft hangers and joint maintenance shop facilities
- Transportation and industrial shop facilities
- Fire department – multi-function building complex
- Military and defense contractor office buildings

Major accomplishments: Construction projects were completed on schedule, within budget and without serious injuries or damage to government property.

While assigned in Europe in 1983, Dr. DeMaria saw the dire need for a mutual understanding of safety and health requirements among western allies. In 1984, he undertook this challenge and planned, organized and hosted the first joint US and NATO safety engineering conference at Aviano, Air Base, Italy. This joint conference among NATO allies is endorsed by member military leaders and state departments and continues to be a beneficial annual event.

Renovation projects:

- Worker housing facilities
- Dining facilities
- Sports and recreation facilities
- Excavation of Underground Storage Tanks