Making Safety
Work for You Safety and
Environmental
Certifications















### Safety Backed by Regulations and Standards

- OSHA, MSHA, NIOSH
- CalOSHA
- FHWA/DOT
- Department of Homeland Security
- Industry Consensus Standards (ANSI, NFPA, ACGIH)













### Safety as a Growing Demand

- Projected to grow 4 percent from 2019 to 2029
- Products, buildings and processes complexity
- Worker's compensation costs
- Evolving regulations
- Construction pre-qualification
- Incident reporting













### **Environmental as a Growing Demand**

- Projected to grow 8 percent from 2019 to 2029
- Environmental changes
- Cultural shifts
- Resource preservation and conservation
- Stricter environmental policies
- Environmental justice/equity













### Safety as a Career

- Working together
- Opportunities to learn new skills
- In House Safety vs Consulting/Contractor work
- Public speaking
- Skills
  - Problem solving
  - Incident investigations
  - Interpreting safety regulations
  - Risk management
  - Negotiations













## Day to Day Responsibilities

- Training
- Auditing and inspections
- Employee engagement
- Safety committee involvement
- Exposure monitoring
- Job hazard analysis
- PPE selection
- Documentation

















#### Experience and Knowledge-Based Certifications

International Academy of Mine Safety and Health (IAMSHA) of SME

- Certified Mine Safety Professional (CMSP)
  - Focuses on subject areas:
    - Fundamental knowledge of science and engineering
    - Leadership, organization and culture
    - Safety, health and risk management
    - Management system systems, regulation and assurance
    - Professional skills, conduct and ethics
  - Surface and underground













#### **Certified Mining Safety Professional**

- Persons who have professional knowledge and experience of domestic and international best practices
- Requirements
  - Will have ten years of mining experience, two in mine safety/health\*
  - Be currently employed in mining safety/health position
  - Pass the CMSP exam (Five-and-a-half-hour exam, 100 questions)
  - Retain your certification













#### **Experience and Knowledge-Based Certifications**

Board of Certified Safety Professionals (BCSP)

- Associate Safety Professionals (ASP)
- Occupational Health and Safety Technician (OHST)
- Construction Health and Safety Technician (CHST)
- Safety Management Specialist (SMS)
- Safety Trained Supervisor Construction (STSC)
- Certified Safety Professional (CSP)













#### Associate Safety Professional (ASP)

- Persons who perform at least 50% of professional level safety duties
- Requirements
  - Minimum bachelor's degree in any field of an associate in safety, health or the environment
  - Will have 1 year of safety experience where safety is at least 50%, preventative, professional level with safety duties
  - Pass the ASP examination (Five-hour exam, 200 questions)
  - Retain your certification













### Occupational Health and Safety Technician (OHST)

- Persons who perform occupational hygiene and safety activities on a full time or part time basis as part of their job duties
- Requirements
  - Will work part-time or full-time in occupation health or safety (35% minimum) and have duties that require technical skills and knowledge in occupational health or safety
  - Will have 3 years of experience in occupational health or safety
  - Pass OHST examination (Four-hour exam, 200 questions)
  - Retain your certification













#### Construction Health and Safety Technician (CHST)

- Persons who demonstrate competency and work parttime or full time in health and safety devoted to the prevention of construction illnesses and injuries
- May be required for Construction bids
- Requirements
  - Work part-time or full-time in construction (35% minimum) and have duties that require technical skills and knowledge in H&S
  - Will have 3 years of experience in construction health or safety
  - Must pass the CHST exam (Four hour-exam, 200 questions)
  - Retain your certification













### Safety Management Specialist (SMS)

- Persons with management skills required for a business's safe operation
- Requirements
  - Will have ten years of experience in occupational health or safety
  - Must pass the SMS examination
  - Retain certification (Four-and-a-half-hour exam, 200 questions)













### Safety Trained Supervisor Construction (STSC)

- Persons who have safety responsibilities that are part of other work duties
- Requirements
  - 30 hours of EHS training
  - Two years supervisory experience or 4 years related to construction; or an associates or higher; or completion of a two-year union training program apprenticeship
  - Pass the STSC exam (Two-hour exam, 100 questions)
  - Retain your certification













### Certified Safety Professional (CSP)

- Persons who perform at least 50% of professional level safety duties
- May be required in large scale construction jobs
- Requirements
  - Will have a minimum of a bachelor's degree
  - Will have four years of safety experience where safety is at least 50% of safety duties
  - Will have a BCSP Qualified Credential
    - Associate Safety Professional ASP
    - Graduate Safety Practitioner GSP
    - Certified Industrial Hygienist CIH
  - Pass CPS examination (five-and-a-half-hour exam, 200 questions)
  - Retain certification













#### **Experience and Knowledge-Based Certifications**

Board for Global EHS Credentialing (BGC)

- Certified Industrial Hygienist (CIH)
- Certified Associate Industrial Hygienist (CAIH)
- Qualified Environmental Professional (QEP)
- Environmental Professional Intern (EPI)
- Certified Professional Product Steward (CPPS)
- Certified Professional Environmental Auditor (CPEA)
- Certified Process Safety Auditor (CPSA)













# Certified Industrial Hygienist (CIH) – Subject Areas

Air Sampling & Instrumentation	Health Risk Analysis & Hazard Communication
Analytical Chemistry	IH Program Management
Basic Science	Noise
Biohazards	Non-Engineering Controls
Biostatistics & Epidemiology	Radiation
Community Exposure	Thermal Stressors
Engineering Controls/Ventilation	Toxicology
Ergonomics	Work Environments & Industrial Processes













### Certified Industrial Hygienist (CIH) – Benefits

- Recognized worldwide as experts in worker exposure assessment.
- Active lobbying to promote use of CIH designation in regulatory language.
- Help workers, employer, and community avoid injury/illness.
- Above average salary (median \$73,020 in 2018).
- Conferences with safety professionals?!













### Certified Industrial Hygienist (CIH) – Eligibility

- Bachelor's degree from USDE accredited college with at least 60 semester credits of science, technology, engineering or math (STEM) and 15 credits in upper division STEM courses.
- 12 semester credits industrial hygiene coursework with 6 credits in Fundamentals of IH, Toxicology, Measurements, and Controls.
- Four years of IH practice (credits for IH degree holders) and currently practicing IH work with experience in at least two of the following stressor categories: chemical, physical, biological, or ergonomic.
- References: two supervisors to substantiate years of practice and document professional IH work by: obtain reference from CIH or someone certified by an organization recognized by the International Occupational Hygiene Association (IOHA).
- No involvement in unethical behavior and will follow Code of Ethics.















**Diversity in Scenery** 











