Health and Safety Engineers

SOC: 17-2111 • Career Profile Report

■ Key Facts

\$109,660Median Salary

23,800 Employment

+4.0%
Growth Rate

■ Requirements & Salary Range

Education: Bachelor's degree

■ Automation Risk Assessment

Low Risk - 17.0% probability of being automated in the next 10-20 years.

This job is relatively safe from automation due to its creative, social, or complex problem-solving requirements.

■■ Work-Life Balance

7.2/10 - Good work-life balance

■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	8.2/10	Investigative	8.8/10	
Artistic	6.4/10	Social	5.2/10	
Enterprising	5.8/10	Conventional	6.6/10	

■ Top Skills Required

Communication skills, Critical-thinking skills, Interpersonal skills, Observational skills, Problem-solving skills

✓ Strengths

- High Demand
- Flexible Work
- Continuous Learning

■ Challenges

- Burnout Risk
- Rapid Technological Change

■ What They Do

Health and Safety Engineers typically perform the following tasks: • Investigate industrial accidents, injuries, or occupational diseases to determine causes and preventive measures. • Conduct research to evaluate safety levels for products. • Evaluate product designs for safety. • Conduct or coordinate worker training in areas such as safety laws and regulations, hazardous condition monitoring, and use of safety equipment. • Maintain and apply knowledge of current policies, regulations, and industrial processes. • Recommend procedures for detection, prevention, and elimination of physical, chemical, or other product hazards. • Report or review findings from accident investigations, facilities inspections, or environmental testing. • Evaluate potential health hazards or damage that could occur from product misuse. • Evaluate adequacy of actions taken to correct health inspection violations. • Interpret safety regulations for others interested in industrial safety, such as safety engineers, labor representatives, and safety inspectors. • Review plans and specifications for construction of new machinery or equipment to determine whether all safety requirements have been met. Participate in preparation of product usage and precautionary label instructions, • Interview employers and employees to obtain information about work environments and workplace incidents. • Provide expert testimony in litigation cases. • Review employee safety programs to determine their adequacy. • Conduct or direct testing of air quality, noise, temperature, or radiation levels to verify compliance with health and safety regulations. • Provide technical advice and guidance to organizations on how to handle health-related problems and make needed changes. • Develop industry standards of product safety. • Maintain liaisons with outside organizations, such as fire departments, mutual aid societies, and rescue teams, so that emergency responses can be facilitated. • Plan and conduct industrial hygiene research.

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