

Building EHS Workforce

**How College Programs Benefit
Students, Industry and Community
@**

ASSP Columbia-Willamette Chapter Meeting

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An EHS program in college benefits everyone!

The EHS program trains local students with OSHA 30, HAZWOPER 40, and Paid Internships to become job-ready EHS technicians.

Local industries get the skilled workers they need to prevent accidents and stay compliant, and the community gains access to stable, family-wage careers.

EHS Program Goals

- **To train students who can prevent injuries, protect the environment, and ensure OSHA / EPA compliance from Day 1.**
- **To achieve the above goal, we have to make sure the EHS program covers the following topics in its Training program:**
 - 1) Safety Fundamentals**
 - 2) Industrial Hygiene & Health**
 - 3) Environmental Management**
 - 4) Leadership & Systems**

1) Safety Fundamentals

- **OSHA 30-Hour General Industry
(included as a credit course)**
- **Construction Safety & Fall Protection**
- **Fire Prevention & Life Safety**
- **Machine Guarding and Lockout/Tagout**

2) Industrial Hygiene & Health

- **Occupational Health & Toxicology**
- **Industrial Hygiene Sampling & Air Monitoring**
- **Ergonomics & Human Factors**
- **Personal Protective Equipment (PPE)**

3) Environmental Management

- **EPA Regulations: RCRA, Clean Air & Clean Water Act**
- **Hazardous Waste Management & HAZWOPER 40-hr**
- **Environmental Sampling & Reporting**
- **Sustainability & Pollution Prevention**

4) Leadership & Systems

- **Incident Investigation & Root Cause Analysis**
- **Safety Management Systems**
- **Risk Assessment & Job Hazard Analysis (JHA)**
- **EHS Data Analytics & OSHA Recordkeeping**

Core Competencies for Graduates of an EHS Program

- **Foundational Knowledge of Chemistry**
- **Proficient Technical and Professional Writing Skills**
- **Effective Oral Communication and Presentation Skills**
- **Advanced Computer Literacy and Data Management Skills**
- **Applied Mathematical and Analytical Skills**
- **Strong Interpersonal and Public Relations Skills**

EHS Degree Options

- **2-Year Degree (AAS)**

95-100 Credits (Quarter System)

- **4-Year Degree (BS)**

180-190 Credits (Quarter System)

Finally, What Makes an EHS program GREAT?

- **Certifications Built-In:** Graduate with OSHA 30, HAZWOPER 40, First Aid/CPR, CSP Associate (ASP) prep
- **Lab & Lecture:** lab time - gas monitors, sound level meters, confined space simulator and
- **Internship Required:** Partnerships with construction, manufacturing, hospitals and any other industries.
- **Tech Skills:** Training on EHS essential software that are used in different industries

Acknowledgement & Questions