



October 14, 2025

Amanda Laihow
Acting Assistant Secretary of Labor for
Occupational Safety and Health
U.S. Department of Labor,
200 Constitution Avenue NW,
Washington, DC 20210

RE: NPRM (**Docket No. OSHA-2025-0006-0013**)

Assistant Secretary Laihow,

The Institute of Hazardous Materials Management (IHMM) is a professional credentialing organization created in 1984 and domiciled in Rockville, Maryland. Among our 11 credentials are those accredited by the American National Standards Institute [ANSI/ANAB] and the Council of Engineering and Scientific Specialty Boards [CESB].

The IHMM is a not-for-profit organization. IHMM has been protecting the environment and the public's health, safety, and security through the creation of credentials recognizing professionals who have demonstrated a high level of knowledge, expertise, and excellence in managing hazardous materials, dangerous goods transportation, environmental protection, health, and safety.

It is primarily through four of IHMM's professional credentials that we provide comments in this submission: the Certified Hazardous Materials Manager® [CHMM®], the Certified Hazardous Materials Practitioner® [CHMP®], the Certified Safety and Health Manager® [CSHM®], and the Certified Safety Management Practitioner® [CSMP®]

IHMM Professional Credentials

The **Certified Safety and Health Manager® (CSHM®)** demonstrates the knowledge and skills necessary to understand general and business management principles; apply management systems; apply occupational health and safety, security, and environmental knowledge, principles, and standards; apply to utilize risk identification, management, and controls; and set related goals, objectives, and targets. Safety and health managers are responsible for ensuring environmental compliance and promoting workplace safety through proper and ongoing leadership. Critical decision-making skills and expertise are needed to effectively address safety, health, and environmental hazards associated with operations and activities. We illustrate the workplace safety

and risk management knowledge, skills, and abilities of the CSHM by including the CSHM blueprint in **Attachment One**.

The CSHM is accredited by the Council on Engineering and Scientific Specialty Boards [CESB], and IHMM is now preparing to submit the new blueprint of the CSHM for accreditation by the American National Standards Institute [ANSI]. The measure of the quality and strength of a certification program is to evaluate its accreditation status. Accreditation is a form of certification for the certifying organization, requiring conformance with strict standards of validity, reliability, and impartiality. A key feature of IHMM credentialing programs is that accreditation is essential because of the nature of work performed by IHMM certificants. The management of environmental, health, and safety issues in the workplace is governed by model regulations from the U.S. Department of Labor, the Occupational Safety and Health Administration, as well as from safety industry best practices regulations. Accredited credentials allow professionals to not only gain knowledge to use and implement these regulations but also to be recognized for their competency to properly manage and perform the functions of the profession.

The **Certified Safety Management Practitioner® (CSMP®)** demonstrates the knowledge, skills, and competencies necessary to understand general and business management principles, safety management methods and systems, safety management systems of ISO standards, and utilize risk identification, management, and hierarchy controls. Safety professionals are responsible for ensuring that employers' safety management systems remain compliant in the workplace and follow all applicable legislation for the worker and the workplace. We illustrate the workplace safety and risk management knowledge, skills, and abilities of the CSMP by including the CSMP blueprint in **Attachment Two**.

The CSMP is accredited by the Council on Engineering and Scientific Specialty Boards [CESB], and IHMM is now preparing to submit the new blueprint of the CSMP for accreditation by the American National Standards Institute [ANSI]. The measure of the quality and strength of a certification program is to evaluate its accreditation status. Accreditation is a form of certification for the certifying organization, requiring conformance with strict standards of validity, reliability, and impartiality. A key feature of IHMM credentialing programs is that accreditation is essential because of the nature of work performed by IHMM certificants. The management of environmental, health, and safety issues in the workplace is governed by model regulations from the U.S. Department of Labor, the Occupational Safety and Health Administration, as well as from safety industry best practices regulations. Accredited credentials allow professionals to not only gain knowledge to use and implement these regulations but also to be recognized for their competency to properly manage and perform the functions of the profession.

The **Certified Hazardous Materials Manager® (CHMM®)** is a professional who has demonstrated, through education, experience, and examination, the ability to identify and assess the risks of hazardous materials, mitigate or eliminate those risks, and manage their impact on human health and the environment. A CHMM provides proper controls for material handling, transportation, and security throughout the life cycle of hazardous materials, from design and production through

storage, recycling, and ultimate disposal. They apply scientific knowledge, engineering technologies, and best management practices in compliance with U.S. regulatory requirements. We illustrate the workplace safety and risk management knowledge, skills, and abilities of the CHMM by including the CHMM blueprint in **Attachment Three**.

The CHMM is accredited by the Council on Engineering and Scientific Specialty Boards [CESB] and by the American National Standards Institute [ANSI]. The measure of the quality and strength of a certification program is to evaluate its accreditation status. Accreditation is a form of certification for the certifying organization, requiring conformance with strict standards of validity, reliability, and impartiality. A key feature of IHMM credentialing programs is that accreditation is essential because of the nature of work performed by IHMM certificants. The handling and management of hazardous materials and the transport of dangerous goods are governed by model regulations published by the US Environmental Protection Agency, US Department of Transportation, the U.S. Department of Labor, the Occupational Safety and Health Administration, as well as by the safety industry best practices regulations. Accredited credentials allow professionals to not only gain knowledge to use and implement these regulations but also to be recognized for their competency to properly manage and perform the functions of the profession.

The **Certified Hazardous Materials Practitioner® (CHMP®)** is a professional who has demonstrated, through education, experience, and examination, the ability to identify and assess the risks of hazardous materials, mitigate or eliminate those risks, and manage their impact on human health and the environment. A CHMP provides proper controls for material handling, transportation, and security throughout the life cycle of hazardous materials, from design and production through storage, recycling, and ultimate disposal. They apply scientific knowledge, engineering technologies, and best management practices in compliance with U.S. regulatory requirements. We illustrate the workplace safety and risk management knowledge, skills, and abilities of the CHMP by including the CHMP blueprint in **Attachment Four**.

The CHMP is accredited by the Council on Engineering and Scientific Specialty Boards [CESB] and by the American National Standards Institute [ANSI]. The measure of the quality and strength of a certification program is to evaluate its accreditation status. Accreditation is a form of certification for the certifying organization, requiring conformance with strict standards of validity, reliability, and impartiality. A key feature of IHMM credentialing programs is that accreditation is essential because of the nature of work performed by IHMM certificants. The handling and management of hazardous materials and the transport of dangerous goods are governed by model regulations published by the US Environmental Protection Agency, US Department of Transportation, the U.S. Department of Labor, the Occupational Safety and Health Administration, as well as by the safety industry best practices regulations. Accredited credentials allow professionals to not only gain knowledge to use and implement these regulations but also to be recognized for their competency to properly manage and perform the functions of the profession.

Recertification of Credentials. After recognizing the strength of the content of the credential, and then its accreditation comes the requirements imposed by the certification body [IHMM] for the

periodic recertification of the credential. IHMM requires that the CSHM, CSMP, CHMM, and CHMP holders recertify their competency to continue to hold the credential every 5 years based on the contents of the certification blueprint. This ensures OSHA and every public and private sector entity that relies on the professionals who hold these credentials and are constantly upgrading their skills, knowledge, and abilities in their communities of practice. We strongly recommend that the OSHA rely on professional credentials that require recertification based on the certification blueprint at least every 5 years.

Training. IHMM's commitment to the excellence of its professional credentials, and throughout OSHA's work with employers, is the emphasis on the necessity of receiving training, and IHMM applauds the dedication to training and education as we stand behind and support our credential holders. IHMM has a Foundation, the IHMM Foundation <https://hazmatsociety.org/>, whose reason to exist is principally a focus on the education and training of IHMM's certificants.

Here <https://hazmatsociety.org/education-training/>, our certificants can easily find and take an extraordinary range of courses to upgrade and expand their knowledge, skills, and abilities.

If there are specific areas where OSHA-required training can be made available to IHMM certificants, then we are pleased to make these resources available to all. IHMM and HMS work with OSHA's Training Institutes to provide critically important education and training services to IHMM's credential holders and the companies in which they work.

Synopsis of Proposed OSHA Rule on Respiratory Protection (Medical Evaluation Requirements)

The Occupational Safety and Health Administration (OSHA) has issued a **Notice of Proposed Rulemaking (NPRM)** to amend the **medical evaluation requirements in the Respiratory Protection Standard (29 CFR Part 1910)**. The rule targets certain categories of respirators and seeks to modernize and streamline the process by which employees are medically evaluated for respirator use.

Purpose and Objectives

OSHA's objective is twofold:

1. **Worker Protection** – Ensure that workers who must wear respirators are medically capable of doing so without undue risk to their health or safety.
2. **Regulatory Efficiency** – Reduce unnecessary burdens by tailoring medical evaluation requirements more closely to the types of respirators being used and the associated physiological demands.

Key Features of the Proposal

- **Revision of Medical Evaluation Protocols:** OSHA intends to update evaluation requirements to reflect advances in medical science, occupational health practice, and respirator design.

- **Risk-Based Approach:** The proposal would differentiate medical clearance procedures depending on whether the respirator in question poses higher or lower physical stress on the user.
- **Procedural Flexibility:** Employers may gain additional compliance options for conducting evaluations (e.g., through revised questionnaires, telehealth evaluations, or alternative assessment methods).

Procedural Status

- Originally published July 1, 2025 (90 Fed. Reg. 28463).
- Public comment period, initially set to close September 2, 2025, has been **extended until November 1, 2025** in response to stakeholder requests.
- OSHA has also agreed to hold an **informal public hearing** on the proposal, with details to follow in a separate notice.

Legal Authority

The proposed rule is issued pursuant to **Sections 4, 6, and 8 of the Occupational Safety and Health Act of 1970 (29 U.S.C. §§ 653, 655, 657)**, the Secretary of Labor’s Order 7–2025, and the rulemaking provisions of 29 CFR part 1911 and 5 U.S.C. 553.

In summary, OSHA is not creating new respirator mandates, but is refining how workers are medically cleared to use certain respirators. The agency is balancing safety with efficiency by tailoring requirements to respirator type and expanding compliance flexibility, while ensuring that employers maintain legal obligations to protect employee health.

While OSHA has authority to revise respirator medical evaluation requirements, the **primary legal risks** are:

1. **APA challenge** for inadequate evidentiary support or dismissal of significant stakeholder comments.
2. **OSH Act challenge** that revisions are not “necessary and appropriate,” particularly if OSHA cannot demonstrate material risk reduction.
3. **Dual-sided stakeholder litigation risk** (industry: overreach/unnecessary burden; unions: insufficient protection).
4. **Judicial climate risk**, as courts may demand a precise showing of necessity given the reduced deference post-Chevron.

Overall litigation risk rating: Moderate-to-High. OSHA’s defensibility will depend heavily on the strength of its rulemaking record, particularly its scientific and economic justifications.

IHMM Comments on the proposed rulemaking.

The Institute of Hazardous Materials Management (IHMM) appreciates the opportunity to submit comments on OSHA's Notice of Proposed Rulemaking (NPRM) to amend the medical evaluation requirements in the Respiratory Protection Standard (29 CFR Part 1910) (90 Fed. Reg. 28463, July 1, 2025).

IHMM is a nonprofit organization that administers accredited professional credentials for individuals engaged in environmental protection, health, and safety management, including the **Certified Hazardous Materials Manager (CHMM®)**, **Certified Safety and Health Manager (CSHM®)**, and **Associate Hazardous Materials Manager (AHMM®)**, among others. Our certificants work across public and private sectors to ensure regulatory compliance, protect worker health, and advance safety practices in high-risk industries.

Because respirator use is foundational to protecting workers against chemical, biological, radiological, and particulate hazards, IHMM has a substantial interest in ensuring that OSHA's regulatory framework governing respirator use remains scientifically rigorous, administratively feasible, and legally defensible.

I. Statutory and Legal Framework

The Occupational Safety and Health Act of 1970 (the "OSH Act") requires OSHA to promulgate standards that are **"reasonably necessary or appropriate to provide safe or healthful employment"** (29 U.S.C. § 652(8); § 655(b)). OSHA's rulemakings are also governed by the **Administrative Procedure Act (APA), 5 U.S.C. § 553**, requiring notice, comment, and reasoned decision-making.

As OSHA revises the medical evaluation provisions of its Respiratory Protection Standard, the agency must ensure that the proposed requirements are supported by substantial evidence in the record, are neither arbitrary nor capricious, and appropriately balance worker health protection with regulatory efficiency.

II. Scientific and Technical Basis

IHMM respectfully requests greater clarity regarding the **scientific and medical evidence** that OSHA relied upon in determining that revisions to medical evaluations are warranted.

- What empirical data demonstrates deficiencies in the current medical evaluation protocol?
- What comparative evidence supports the reliability of proposed alternatives such as telehealth consultations or updated questionnaires?

- How will OSHA ensure that any reduced reliance on in-person clinical evaluations does not compromise detection of underlying health conditions that may impair safe respirator use (e.g., cardiovascular or pulmonary issues)?

To withstand scrutiny under the APA and judicial review post-*Chevron*, OSHA must demonstrate a clear nexus between revised procedures and tangible improvements in worker protection or regulatory efficiency. Without such evidence, the rule could be vulnerable to claims of arbitrariness.

As a safety and health professional with over 20 years of experience and current Director of PROSHA in San Juan, Puerto Rico, we respectfully submit the following additional comments regarding OSHA's proposal to remove certain medical evaluation requirements for filtering facepiece respirators (FFRs) and loose-fitting powered air-purifying respirators (PAPRs).

We acknowledge that this proposal aims to reduce administrative burdens and improve access to respiratory protection, particularly in emergency contexts or low-risk tasks. However, we are concerned that the complete removal of the medical evaluation requirement may expose certain workers to hidden risks—especially those with underlying medical conditions such as respiratory or cardiovascular diseases, or anxiety disorders. Medical evaluations serve not only a preventive function but also help tailor protective measures to the individual capabilities of each worker. Rather than a blanket exemption, we recommend that OSHA consider a risk-based approach, allowing exceptions only for low-exposure tasks, with proper documentation and the option of voluntary medical evaluation. Regulatory simplification should never come at the expense of worker protection. We must uphold the principle that no one should risk their health or life for a paycheck. Therefore, I urge OSHA to strike a balance between regulatory efficiency and comprehensive worker safety.

III. Necessity and Appropriateness under the OSH Act

OSHA must also satisfy the OSH Act's requirement that standards be **"necessary and appropriate"**. Courts have long scrutinized whether OSHA standards address a material risk of harm and are justified by evidence (see *Industrial Union Dep't, AFL-CIO v. American Petroleum Institute* ("Benzene Case"), 448 U.S. 607 (1980)).

IHMM urges OSHA to clearly explain why existing evaluation requirements are insufficient and how the proposed changes will materially improve worker safety. If the revisions are framed primarily as administrative streamlining, without demonstrated safety benefits, OSHA may face statutory challenges that the revisions are not "necessary."

IV. Impacts on Small and Medium-Sized Employers

Many IHMM certificants support small and mid-sized businesses, where access to occupational health services is limited. A shift toward alternative medical evaluation methods could either reduce costs or impose new burdens, depending on implementation.

- If employers are required to engage telehealth providers, what costs will be incurred relative to current practice?
- How will OSHA ensure access for rural or resource-limited employers?
- Has OSHA conducted a Regulatory Flexibility Act analysis that accounts for small-entity compliance burdens?

IHMM urges OSHA to publish a **Small Business Impact Assessment** and consider phased implementation to ensure compliance feasibility.

V. Privacy, Confidentiality, and Data Security

The proposed flexibility to use telehealth or digital questionnaires raises important questions regarding worker privacy and data protection. Medical information collected electronically may trigger obligations under the **Health Insurance Portability and Accountability Act (HIPAA)** and related state privacy laws.

IHMM requests OSHA to issue explicit guidance clarifying:

1. How employers should safeguard digital medical records.
2. Whether electronic opinions from licensed healthcare professionals are equivalent to written records for compliance purposes.
3. The scope of employer liability if a data breach compromises worker health information.

Without such guidance, employers may face legal uncertainty and potential liability exposure.

VI. Alignment with Other Federal Standards

IHMM emphasizes the importance of aligning OSHA's medical evaluation requirements with **other federal regulatory regimes**. For example:

- **NIOSH** research and guidance on respirator use.
- **DOT** medical certification requirements for commercial drivers.
- **EPA** worker protection standards in hazardous substance response.

Inconsistent standards create confusion, duplicative costs, and fragmented compliance systems. OSHA should harmonize requirements where possible to avoid regulatory conflict.

VII. Liability and Responsibility Allocation

The proposed revisions raise unresolved questions regarding **employer liability** if a worker is improperly cleared through an alternative medical evaluation process. If a telehealth provider erroneously approves a worker who is later injured due to an undiscovered health condition, is the employer fully responsible?

IHMM recommends that OSHA issue compliance guidance allocating responsibility among employers, healthcare professionals, and third-party evaluation platforms. Absent clear guidance, employers may face increased litigation risk.

VIII. Implementation Timeline and Flexibility

IHMM urges OSHA to provide employers with a **reasonable phase-in period** to implement any new evaluation protocols. Employers need time to:

- Train safety personnel,
- Update compliance programs,
- Establish contracts with healthcare providers, and
- Update recordkeeping systems.

IHMM also recommends OSHA publish **model tools** (e.g., standardized forms, telehealth protocols, checklists) to aid compliance, especially for small employers with limited resources.

IX. Recordkeeping and Documentation

Under 29 CFR § 1910.1020, employers must retain worker medical records. OSHA should clarify how revised medical evaluations—especially those conducted electronically—fit within existing recordkeeping obligations. Questions include:

- Whether electronic certifications are legally equivalent to physician’s written opinions.
- How long employers must retain telehealth evaluations.
- Acceptable electronic storage methods for compliance purposes.

IHMM recommends OSHA publish technical guidance on recordkeeping compliance for digital evaluations.

X. Training and Recognition of Professional Certifications

IHMM stresses the value of leveraging **certified safety and health professionals** in implementing revised respirator medical evaluation requirements. IHMM's certifications (CHMM, CSHM, AHMM, among others) are accredited under ANSI/ISO/IEC 17024, aligning with international standards of competence.

OSHA should reference professional certification bodies in its compliance assistance efforts to strengthen implementation and ensure employers have access to competent expertise.

Conclusion

IHMM supports OSHA's goal of ensuring that respirator use does not pose undue risks to worker health. However, to ensure the rule is both protective and defensible, OSHA must:

1. Provide **transparent scientific justification** for revisions.
2. Demonstrate compliance with the OSH Act's "**necessary and appropriate**" standard.
3. Address **small-business feasibility**.
4. Clarify **privacy, liability, and recordkeeping** obligations.
5. Harmonize with **other federal standards**.
6. Provide **flexibility, implementation tools, and professional recognition**.

IHMM respectfully urges OSHA to address these issues in the final rulemaking record to ensure regulatory clarity, legal defensibility, and practical feasibility while advancing the shared goal of protecting worker health and safety.

These measures collectively prioritize worker safety, health, and equity while providing clear guidelines for employers.

The Institute of Hazardous Materials Management [IHMM], as an international professional certification body, stands ready to support OSHA in the implementation of this rule and is anxious to collaborate with the agency in the training of our credential holders to protect America's workers and workplaces.

Sincerely



Eugene A. Guilford, Jr., CAE
Executive Director
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Attachment One

Certified Safety and Health Manager [CSHM]



**CERTIFIED SAFETY AND HEALTH MANAGER® (CSHM®)
EXAMINATION SPECIFICATION (BLUEPRINT)
Effective 2023**

The Certified Safety and Health Manager (CSHM) demonstrates knowledge and skills necessary to understand general and business management principles; apply management systems; apply occupational health and safety, security, and environmental knowledge, principles, and standards; apply to utilize risk identification, management, and controls; and set related goals, objectives, and targets.

Safety and health managers are responsible for ensuring environmental compliance and promoting workplace safety through proper and ongoing leadership. Critical decision-making skills and expertise are needed to effectively address safety, health, and environmental hazards associated with operations and activities.

The CSHM examination is a testing instrument designed to evaluate a candidate's minimal competency in the field of safety and health management. The exam is constructed with two cognitive levels.

- Declarative – requires a candidate to recall and retain knowledge.
- Application - requires a candidate to apply the knowledge to a scenario.

This Specification Blueprint offers guidance to candidates by outlining the domains and tasks covered in the examination. The blueprint reflects the consensus of the profession validated via a survey of what safety and health managers do in practice. The blueprint below describes the testing objectives covered by the examination.

The CSHM Test Specification Blueprint lists below each domain and competencies with tasks given under each domain. A percentage label accompanies each domain in this Specification Blueprint. This percentage represents the proportion of the actual CSHM examination devoted to that domain.



SECTION	DOMAINS AND COMPETENCIES/TASKS	% Of Exam
1	Planning, Leadership, and Employee Involvement	22.13
1.1	Declarative: Describe differences between policies and goals.	
1.2	Declarative: Identify safety and health resource needs including budgeting, certifications, standards, equipment, policies, procedures.	
1.3	Declarative: Identify differences between a union and non-union shop as they relate to safety and health.	
1.4	Procedural: Given a scenario, identify departments or divisions needed to cooperate in safety and health efforts.	
1.5	Procedural: Given a scenario, describe resources used to mitigate risk via policies and recommendations.	
1.6	Declarative: Identify ethical practices within safety and health.	
1.7	Declarative: Identify policies and procedures to increase safety awareness.	
1.8	Declarative: Identify quality principles that apply to safety and health.	
1.9	Declarative: Identify safety and health management systems.	
1.10	Procedural: Given a scenario, identify applicable federal environmental regulations.	
1.11	Procedural: Given a scenario, apply the applicable voluntary-consensus standard.	
1.12	Procedural: Given a scenario, describe the importance of health and safety in the context of an organization.	
2	Communication and Resources	15.51
2.1	Declarative: Identify ways to communicate corporate safety education.	
2.2	Declarative: Identify different educational and training requirements at different levels of the organization.	
2.3	Declarative: Identify barriers to participation.	
2.4	Declarative: Identify key hazards and risks, their categories, and the differences between them.	
2.5	Declarative: Identify core OH&S objectives and key documents.	
2.6	Procedural: Given a scenario, analyze different ways that work gets done to communicate requirements across the enterprise.	
3	Risk Assessment and Control	19.48
3.1	Declarative: Define, analyze, assess, and prioritize risk.	
3.2	Declarative: Identify corrective action.	
3.3	Declarative: Prioritize the effectiveness of control measures.	
3.4	Procedural: Given a scenario, apply the appropriate rating or approval (e.g., UL, ANSI, FM, NIOSH).	
3.5	Declarative: Identify the core components of an effective policy.	
4	Operations and Programs	15.02
4.1	Procedural: Given a scenario, identify the appropriate consensus standard (e.g., ISO, ANSI, ASTM, NFPA).	



4.2	Procedural: Given a scenario, identify compliance management operations and programs (e.g., ISO 45001, ANSI Z10, OHSAS 18001).	
4.3	Procedural: Given a scenario, identify fire prevention and emergency safety preparedness principles and practices.	
4.4	Procedural: Given a scenario, identify crisis management and business continuity principles and practices in the event of an emergency.	
4.5	Declarative: Identify data storage security principles and practices.	
4.6	Declarative: Identify requirements to manage and keep confidential employee data and documentation.	
4.7	Declarative: Identify soil classifications and the application to work in an excavation.	
4.8	Declarative: Identify control measures for blood-borne pathogens.	
4.9	Procedural: Given a scenario, classify waste according to the hazard(s).	
4.10	Procedural: Given a scenario, determine appropriate air sampling methodologies.	
4.11	Procedural: Given a scenario, determine whether exposure is excessive.	
4.12	Declarative: Identify elements of a process safety management program.	
4.13	Procedural: Given a multi-employer worksite, identify elements of a control program.	
4.14	Procedural: Given a scenario, identify risk factors and controls.	
5	Monitoring and Measurement	11.98
5.1	Declarative: Identify techniques for prioritization of control.	
5.2	Procedural: Given a specific standard, identify the regulatory agency responsible for the standard.	
5.3	Procedural: Given a specific standard, identify whether the standard is mandatory or voluntary.	
5.4	Procedural: Given an initial assessment of existing hazards, identify the most urgent hazard.	
5.5	Procedural: Given safety statistical data, identify unsafe behaviors.	
5.6	Procedural: Given a scenario, determine effective ways to communicate preventive action.	
5.7	Procedural: Given a scenario that utilizes new regulatory information, determine an effective methodology to promote safety for a specific industry.	
5.8	Procedural: Given an audit or different inspections, recommend changes.	
5.9	Procedural: Given a scenario, determine whether a metric is a leading or lagging indicator.	
6	Incident Investigation and Analysis	15.88
6.1	Procedural: Given a scenario, identify causal factors.	
6.2	Procedural: Given an incident investigation scenario, identify corrective action.	
6.3	Procedural: Given a set of injury data, determine priorities.	
6.4	Procedural: Given a scenario, determine whether an incident is recordable or reportable.	



Domains 1,2,3,4,5 and 6 incorporate the use of the ASSP/ANSI standard Z10.0

This IHMM® CSHM™ certification blueprint is the intellectual property of the Institute of Hazardous Materials Management, all rights reserved.

For more information about the Certified Safety and Health Manager (CSHM) certification program, including eligibility requirements and application procedures, see the IHMM [Candidate Handbook](#) available at www.ihmm.org. If you have questions about the CSHM Blueprint, please contact M. Patricia Buley at pbuley@ihmm.org.

Attachment Two
Certified Safety Management Practitioner



**CERTIFIED SAFETY MANAGEMENT PRACTITIONER® (CSMP®)
EXAM SPECIFICATION (BLUEPRINT)
Effective Fourth Quarter of 2022**

The Certified Safety Management Practitioner (CSMP) demonstrates knowledge, skills, and competencies necessary to understand general and business management principles, safety management methods and systems, safety management systems of ISO standards, and utilize risk identification management and hierarchy controls.

Safety professionals are responsible for ensuring that employers' safety management systems remain compliant in the workplace, and follow all applicable legislation for the worker and the workplace.

The CSMP examination is a testing instrument designed to evaluate a candidate's minimal competency in the areas of the blueprint. The exam is constructed with two cognitive levels.

- Declarative – requires a candidate to recall and retain knowledge.
- Application - requires a candidate to apply the knowledge to a scenario.

This Specification Blueprint offers guidance to candidates by outlining the domains and tasks covered in the examination. The blueprint reflects the consensus of the profession validated via a survey of what safety managers do in practice. The blueprint below describes the testing objectives covered by the examination.



The CSMP Specification Blueprint lists below each domain and competencies with tasks given under each domain. A percentage label accompanies each domain in this Specification Blueprint. This percentage represents the proportion of the actual CSMP examination devoted to that domain.

SECTION	DOMAINS AND COMPETENCIES/TASKS	% Of Exam
1	Workplace Safety	24.86
1.1	Declarative: Identify the elements of a written safety policy.	
1.2	Declarative: Identify the elements of the SMART model for setting goals.	
1.3	Declarative: Identify the applicable health and safety resources.	
1.4	Application: Given a scenario or table, describe the differences between leading and lagging indicators.	
1.5	Application: Given a scenario, describe the impacts, either negative or positive, upon worker participation.	
1.6	Application: Given a scenario, determine the need for hazard reporting.	
1.7	Declarative: Describe ways to access safety and health information.	
1.8	Declarative: Identify the positional responsibilities for safety.	
1.9	Application: Given a statistical measure, identify the correct formula.	
1.10	Declarative: Describe different inspectors or inspection personnel who inspect the workplace for safety hazards.	
1.11	Declarative: Identify health hazards.	
1.12	Declarative: Identify safety hazards.	
1.13	Declarative: Identify the correct order of steps to conduct an incident investigation.	
1.14	Declarative: Identify the hazards associated with emergency and non-routine situations.	
1.15	Declarative: Identify workplace hazards.	
1.16	Declarative: Identify the control options and components of a hazard control plan.	
1.17	Application: Given a scenario, describe the appropriate means to confirm control effectiveness.	
1.18	Declarative: Identify the types of general orientation practice or program awareness courses for onboarding in the workplace.	
1.19	Declarative: Differentiate between employer and employee responsibilities.	
1.20	Declarative: Identify the steps needed to implement a workplace safety program.	
1.21	Application: Given a scenario about a workplace safety program shortcoming, describe the opportunities for improvement.	
1.22	Declarative: Identify the elements of effective communication.	
1.23	Declarative: Identify the basic components of drug and alcohol safety program testing (i.e., pre-hire testing, accident testing, post-incident testing; do not include random testing).	
2	Regulatory	14.68
2.1	Application: Given a scenario an injury or illness event, determine recordability	
2.2	Declarative: Identify the appropriate or required first aid kit in the workplace per legislation or hazard analysis.	



2.3	Declarative: Identify the acronyms for standard-setting bodies.	
2.4	Application: Given a regulation or standard, identify whether it is federal/state/province legislation or an industry standard.	
2.5	Application: Given a situation, identify the applicable laws and regulations (local, state/province, federal/national).	
2.6	Declarative: Identify the basic steps of an enforcement or regulatory visit.	
3	General Health and Safety Knowledge	20.83
3.1	Declarative: Identify the elements of the Hierarchy of Controls.	
3.2	Declarative: Identify the various elements of a Safety Management System (ISO, SHARP, VPP).	
3.3	Declarative: Identify the basic concepts of hazard assessment, job hazard analysis (JHA), or job safety analysis (JSA).	
3.4	Declarative: Identify the four goals of industrial hygiene (anticipate, recognize, evaluate, and control).	
3.5	Declarative: Define basic industrial hygiene terms (e.g., toxicology, absorption, dose, hearing testing, lung testing).	
3.6	Application: Given an industrial hygiene goal, identify the settings or conditions that require the use of respiratory protection, hearing conservation, or exposure to chemicals.	
3.7	Declarative: Utilize a safety data sheet to determine the hazards and precautions to be taken for a given chemical.	
3.8	Application: Given a situation, select the appropriate personal protective equipment (PPE).	
3.9	Declarative: Identify the various machine guarding standards (ANSI, ASME) and regulations (local, state, and national).	
3.10	Declarative: Identify the hazards associated with hazardous locations on machines (point of operation, power transmission, etc.) and ways to control employee exposure to the hazards.	
3.11	Application: Given a scenario, apply the lockout and tag-out regulations (local, state, and national).	
3.12	Application: Given a situation, determine the proper use of hand and power tools including minimum safety requirements (guarding, personal protective equipment, ergonomics, etc.).	
3.13	Declarative: Identify the industry standards (ASME, etc.) and regulations (local, state, and national) related to types of slings and lifting equipment.	
3.14	Application: For a given respirator, explain its proper uses and limitations.	
3.15	Declarative: Define electrical terminology. (Volts, amperage, resistance, etc.).	
3.16	Declarative: Identify the causes and effects of electrical shock.	
3.17	Declarative: Identify the appropriate personal protective equipment and tools for use around live electrical equipment.	
3.18	Declarative: Identify the steps to ensure electrical safety. (Lockout, tag out, de-energize, permit to work, barricades; focus on basic terms.)	
3.19	Declarative: Identify the basic requirements for emergency response plan elements for hazardous substances release.	



3.20	Declarative: Identify the hazards associated with compressed gases including flammable gases, LP gas, and welding and cutting gases.	
3.21	Declarative: Identify the basic concepts, safety, and industrial hygiene requirements and regulations related to welding, cutting, brazing, and electric arc welding including basic control methods.	
3.22	Declarative: Identify the various types of cranes and hoists and understands the safety requirements for operating or working around this equipment.	
3.23	Declarative: Describe the concepts of Ionizing and Non-Ionizing Radiation (effects, definitions, eliminate a source of exposure, electric magnetic PPE, signage).	
3.24	Declarative: Identify the health and safety requirements for working with and transporting propane.	
3.25	Declarative: Identify the types of fire protection systems, alarm systems, and fire prevention concepts.	
3.26	Declarative: Identify the safety and regulatory requirements for fall protection, ladder safety, barriers, and use of scaffolds.	
3.27	Declarative: Identify the safety and regulatory requirements for operations of powered industrial trucks (various types) including the requirements for operator training.	
3.28	Declarative: Identify the requirements and standards for warehouse safety including industrial trucks, stacking, walking/working surface, forklift, chocking, training PIT operators.	
3.29	Declarative: Identify the regulations for drinking and potable water and sanitation in workplace settings, i.e., break areas, work areas, lunchroom, first aid station.	
3.30	Declarative: Identify the safety and regulatory requirements for operations of mobile elevated platforms (aerial lifts, boom lifts, harness/fall arrest devices) including requirements for operator training.	
3.31	Declarative: Identify the adult first aid, CPR, and AED requirements and certification for specific industries.	
3.32	Declarative: Identify the requirements for OSHA 300 record-keeping and other employer-related records for occupational health and safety logs.	
3.33	Application: Given a GHS for a harmful substance, describe the effects of the substance on humans and apply the safety, health, and regulatory requirements for controlling exposure to the substance.	
4	Accident Investigation and Prevention	16.19
4.1	Declarative: Identify the steps to conduct an accident investigation, including who, what, where, when, how, and why.	
4.2	Declarative: Identify the types of accidents that must be reported to OSHA or local authority within a certain time frame, such as loss of eye, amputation, or other serious injury, or death.	
4.3	Declarative: Identify what is an OSHA recordable statistic.	
4.4	Declarative: Identify what is an OSHA non-recordable statistic.	
4.5	Declarative: Identify the available resources that can assist with trainings to help prevent accidents.	
4.6	Declarative: Identify the three steps of posting requirements.	



4.7	Application: Given a scenario, explain the importance of a team effort to conduct an accident investigation.	
4.8	Declarative: Identify the sources for locate previous citations.	
5	Safety Management System Structure	13.69
5.1	Declarative: Identify the safety improvements that should be implemented for the general workplace inspection.	
5.2	Declarative: Identify the elements of a health and safety management system.	
5.3	Application: Given data, calculate the incident rates.	
5.4	Application: Given incident rates, predict the highest probability of an accident occurring.	
5.5	Declarative: Identify the emergency action plans (EAP) for areas of jurisdiction and/or responsibility.	
5.6	Declarative: Identify the need for mutual aid agreements.	
5.7	Application: Given a scenario, describe the importance of management and/or leadership commitment to a safety management program.	
5.8	Declarative: Describe the effect of safety management programs on recordable accidents in the workplace.	
5.9	Declarative: Identify the steps of onboarding or orientation of new employees to the workplace related to HR and Safety and Health.	
5.10	Declarative: Identify the steps of orientation and coordination of vendors/contractors to the workplace related to HR and Safety and Health.	
5.11	Declarative: Describe the union member involvement in the specific/non-specific Health, Safety, and Environment (HSE), and safety management systems.	
6	Professional Standards	9.75
6.1	Declarative: Identify the elements of the IHMM Code of Ethics.	
6.2	Application: Given a scenario, apply the appropriate IHMM Code of Ethics.	
6.3	Declarative: Identify the consequences for violations of the IHMM Code of Ethics.	
6.4	Declarative: Describe the individual legal, moral, and ethical responsibility to the requirements of the IHMM Code of Ethics.	
6.5	Declarative: Identify the IHMM committee that is responsible for oversight of the IHMM Code of Ethics.	

Domains 1,2,3,4, and 5 incorporate the use of ISO 45001, Occupational Health and Management Systems

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For more information about the Certified Safety Management Practitioner (CSMP) certification program, including eligibility requirements and application procedures, see the IHMM [Candidate Handbook](http://www.ihmm.org) available at www.ihmm.org. If you have questions about the CSMP Blueprint, please contact M. Patricia Buley at pbuley@ihmm.org.

Attachment Three
Certified Hazardous Materials Manager



CERTIFIED HAZARDOUS MATERIALS MANAGER (CHMM®) EXAM SPECIFICATIONS (BLUEPRINT)

Effective 2021

A Certified Hazardous Materials Manager (CHMM) is a professional who has demonstrated, through education, experience and examination, the ability to identify and assess the risks of hazardous materials, mitigate, or eliminate those risks, and manage their impact on human health and the environment.

A CHMM provides proper controls for material handling, transportation, and security throughout the life cycle of hazardous materials, from design and production through storage, recycling, and ultimate disposal. They apply scientific knowledge, engineering technologies, and best management practices in compliance with U.S. regulatory requirements.

The CHMM examination is a testing instrument designed to evaluate candidate's minimal competency in the field of hazardous materials management. This Specification Blueprint is intended to offer guidance to candidates by outlining the domains and tasks that will be covered on the examination. The blueprint reflects the consensus of the profession validated via a survey of what hazardous materials managers do in practice. The Blueprint below describes the subject matter covered by the examination. All test items will be drawn from among the domain areas of the Specification Blueprint.

This Specification Blueprint lists below each domain and competencies with tasks given under each domain. A percentage label accompanies each domain in this Specification Blueprint. This percentage represents the proportion of the actual CHMM examination devoted to that domain. Tasks provide reference for activities conducted under each domain.

DOMAINS AND COMPETENCIES/TASKS	% of Exams
1 Planning for Materials with Hazards	9.35
1.1 Identify hazardous materials by name.	
1.2 Given four SDS, identify the hazardous material.	
1.3 Given a laboratory report (boiling point, classification, PH), identify the constituent that makes this mixture hazardous.	
1.4 Given a scenario about pollution prevention, identify the preferred strategy that should be used.	
1.5 Identify examples of effective recycling.	
1.6 Given a scenario involving pollution, identify the pollution impacts and the related regulations.	
1.7 Given a scenario about a Pollution Prevention Opportunity Assessment (PPOA), identify the elements and sequence of events.	
1.8 Given a scenario about hazardous materials and process, identify the impact to air.	
1.9 Given a scenario hazardous materials and process, identify the impact to water resources.	
1.10 Given a scenario hazardous materials and process, identify the impact to soil.	
1.11 Identify the characteristics of minor and major permits.	
1.12 Identify the characteristics of the permit application and permit review.	
1.13 Identify the characteristics of inspection, training, and waste requirements of permitting.	



1.14 Determine the threshold quantity of a regulated substance in a process required to comply with EPA's risk management program regulation.	
1.15 Identify the components of Standard Operating Procedures (SOP).	
2 Shipping and Transporting Hazardous Waste and Hazardous Materials	10.34
2.1 Given a scenario about hazmat transportation, identify requirements.	
2.2 Given a scenario about packaging, identify the appropriate container.	
2.3 Given a scenario about transporting hazardous waste or hazardous materials and the method of transportation, identify the required labeling.	
2.4 Given a scenario about shipping domestically or internationally, determine how hazardous materials should be marked.	
2.5 Given a scenario, identify what information needs to be included in the shipping documents, and the proper shipping description format, and order of information.	
2.6 Given a shipment scenario, identify the required placarding.	
2.7 Identify conditions under which shipments, or portions of shipments, can be accepted or rejected.	
3 Store Materials with Hazard	9.22
3.1 Identify storage location site requirements for property containing hazardous materials/waste.	
3.2 Given a scenario about controlling inventory, identify the regulations that apply to that inventory.	
3.3 Given a scenario about storage of hazardous waste/material, identify the facility signage requirements.	
3.4 Given a scenario about storing a hazardous waste/material, identify proper container labeling requirements.	
3.5 Given a scenario about controlling access to hazardous materials/waste, identify how to control access.	
3.6 Given a scenario, identify how storage meets requirements.	
4 Facility Operations Involving Materials with Hazards	9.12
4.1 Given a type of hazardous material/waste, identify the engineering control that should be used to treat the material/waste.	
4.2 Given a type of hazardous material/waste, identify the engineering control that should be used to store of the material/waste.	
4.3 Given a type of hazardous material/waste, identify the engineering control that should be used to dispose of the waste.	
4.4 Given a scenario about a process, identify regulatory training record requirements.	
4.5 Given an SDS, identify the hazardous communication requirements that are needed for that material.	
4.6 Given a hazardous material, identify the PPE that should be used when sampling, handling, i.e., sweeping, shoveling, etc., the material.	
4.7 Given a scenario, identify the testing procedures needed to determine the hazard associated with the material.	
4.8 Given a hazardous material, determine health, safety, and security requirements.	
5 Disposition of Materials with Hazards	8.46
5.1 Identify typical components of a waste profile.	
5.2 Given a scenario about a waste material, identify the disposition options.	
5.3 Identify what a generator uses to qualify/disqualify a disposal facility.	
5.4 Given a scenario about a material (soil, chemical product, construction waste, etc.), identify the disposition requirements for the material.	



5.5 Given a scenario about the final disposition of a hazardous waste under RCRA, identify how final disposition is confirmed and documented.	
5.6 Given a scenario where there is a release from a container, identify how the release should be managed.	
5.7 Given a waste disposition scenario, identify how emissions (air) should be managed.	
5.8 Given a waste disposition scenario, identify how discharges (water) should be managed.	
6 Record Keeping and Reporting	7.49
6.1 Given a scenario about a spill of a hazardous material, identify the reporting requirements (timeframe, threshold reporting quantities, who receives the reports.)	
6.2 Given a scenario, identify the record keeping requirements for the relevant regulatory program (RCRA, EPCRA, TSCA, UST, CWA, CAA, CERCLA, HMTA, and SARA).	
7 Training Personnel	8.07
7.1 Given a scenario, identify the training requirements for the relevant regulatory program (RCRA, EPCRA, TSCA, UST, CWA, CAA, CERCLA, HMTA, SARA, and OSHA.)	
7.2 Given an activity involving materials with hazard, identify the competencies that would be needed for that activity (could include identifying hazards, determine if respiratory protection is needed, determine PPE needed, decontamination sequences, site worker needs a physical).	
7.3 Given a scenario about a job, identify the types of training that are required.	
7.4 Given a scenario about training, identify the assessment that should be used.	
7.5 Given a scenario about a Hazmat event when conducting drills and exercises, identify which types of agencies should be involved.	
7.6 Given a regulatory requirement, determine the adequacy of the training content and duration.	
8 Response and Recovery	7.95
8.1 Given a scenario about a spill or release, identify the chemical and physical hazards of the material, the quantity of material, and the location of the spill /release.	
8.2 Given a scenario about a spill or release, identify the amount of material that has been spilled or released.	
8.3 Identify the conditions that require the incident to be reported to the National Response Center.	
8.4 Given a scenario about a spill or release, identify how to mitigate the impact to receptors.	
8.5 Identify the steps to develop a recovery or incident action plan.	
8.6 Given an accident situation, identify data needed to investigate the cause of the incident.	
9 Remediation	6.5
9.1 Given a scenario about a spill or release, determine how to identify the constituents of concern, the vertical and horizontal extent of the constituents of concern, and the characteristics of the receiving media.	
9.2 Given a release scenario, determine the appropriate remedial objectives.	
9.3 Given a scenario about physical characteristics of a contaminant and a situation involving the contaminant, identify the treatment option that should be used to remediate the contaminant.	
9.4 Given a scenario about a remedial technology that was selected, identify the tools that should be used to ensure remedial action objectives are achieved.	
9.5 Identify capital and recurring costs (O&M costs) associated with a selected remedial action.	
9.6 Given a scenario and remediation technology, identify redevelopment considerations and pitfalls.	
9.7 Given soil analytical results, determine if the clean-up standard has been achieved.	



10 Management Systems	6.58
10.1 Given a scenario, identify which regulations would apply to a multi-media program.	
10.2 Given a scenario, identify the requirements for the maintenance and retention of records.	
10.3 Given a scenario, identify how the investigator can determine if a regulation is current.	
10.4 Given a scenario, identify knowledge needed to participate in regulation development.	
10.5 Given a scenario, identify the required interested parties and the process for the interested parties to communicate.	
10.6 Given a scenario, what are the required public outreach mechanisms?	
10.7 Identify elements of a management system audit and difference(s) from a compliance audit.	
10.8 Identify variables in a financial analysis.	
10.9 Given a scenario, describe operations that require a program.	
11 Environmental Studies	6.35
11.1 Given a scenario about a property transfer (sales or purchase of property), describe the required environmental due diligence.	
11.2 Given a scenario where lead-based paint, asbestos, and other regulated materials are thought to be present, describe how a building survey should be conducted.	
11.3 Given a regulatory framework, describe the required process and output.	
11.4 Given a scenario of analytical data, identify contaminants of concern.	
11.5 Given a scenario of a source of contamination, describe likely exposure routes.	
12 Health and Safety	10.57
12.1 Given a concentration of a contaminant of concern, identify exposure routes and susceptible populations that may be affected.	
12.2 Given screening thresholds, identify potential hazardous material exposure routes.	
12.3 Given a scenario, identify tasks to complete a job, the hazards of those tasks, and the control of those hazards.	
12.4 Determine process safety management.	
12.5 Identify recommended basic elements of an OSHA-compliant site safety plan.	
12.6 Identify recommended elements of an emergency response plan.	
12.7 Given the presence of hazardous materials, identify the appropriate containment.	
12.8 Identify labeling requirements for products.	

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Attachment Four
Certified Hazardous Materials Practitioner



**CERTIFIED HAZARDOUS MATERIALS PRACTITIONER (CHMP®)
EXAM SPECIFICATIONS (BLUEPRINT)**

Effective Q4/2022

A Certified Hazardous Materials Practitioner (CHMP) is a professional experienced in handling hazardous materials in a wide variety of specialties, such as safety, environmental protection and compliance, and transportation. The CHMP professional focuses on technical knowledge and expertise in handling hazardous materials.

A CHMP provides proper controls for material handling, transportation, and security throughout the life cycle of hazardous materials, from design and production through storage, recycling, and ultimate disposal. They apply scientific knowledge, engineering technologies, and best management practices in compliance with U.S. regulatory requirements.

The CHMP examination is a testing instrument designed to evaluate a candidate's minimal competency in the field of hazardous materials management. This Specification Blueprint offers guidance to candidates by outlining the Domains and Tasks covered in the examination. The Blueprint reflects the consensus of the profession validated via a survey of what hazardous materials managers do in practice. The Blueprint below describes the subject matter covered by the examination. All test items come from the Domain areas of the Specification Blueprint.

This Specification Blueprint lists each Domain and Competencies with Tasks given under each Domain. A percentage of the exam accompanies each Domain in this Specification Blueprint. This percentage represents the proportion of the actual CHMP examination devoted to that Domain. The Tasks provide a reference for activities conducted under each Domain.

DOMAINS AND COMPETENCIES/TASKS		% of Exams
1	Identification, Handling, and Transport of Hazardous Materials	35.58%
1.1	Declarative -- Identify management, transport, treatment, and disposal regulations for hazardous materials	
1.2	Declarative -- Identify mandated training (Example: HAZWOPER training.)	
1.3	Declarative -- Identify the difference(s) between DOT hazardous material, EPA/RCRA hazardous waste, and OSHA hazardous substance	
1.4	Declarative -- Identify generator, transporter, and TSDF standards	
1.5	Declarative -- State criteria for identifying the characteristics of hazardous waste and for listing hazardous waste	
1.6	Declarative -- Identify standards for VSQG, SQG, LQG, and generators of Universal Waste	
1.7	Declarative -- Identify shipping papers, labels, markings, placarding, packaging, and record keeping requirements	



1.8	Declarative -- Identify standards for managing specific hazardous waste, standards for owners and operators of TSDF, land disposal restrictions (LDR), and standards for universal waste management
1.9	Declarative -- Identify waste minimization activities
1.1	Declarative -- Identify waste record and reporting requirements
2	Management of Emergencies & Incidents (E&I) 18.46%
2.1	Procedural - Given a scenario, determine resources needed to provide an HSP and emergency planning and training; include an employee right to know (RTK) and access to safety data sheets (SDS)
2.2	Procedural -- Given a scenario about an incident, determine the size and role and responsibilities of the incident command system (ICS)
2.3	Procedural -- Given a scenario, determine if record keeping and reporting are necessary according to state and federal regulations and requirements
3	Sampling and Analysis of Hazardous Materials/Waste 15%
3.1	Declarative - Identify requirements of a Waste Analysis and Sampling Plan (WASP)
3.2	Declarative - Identify how and when to use different types of direct-reading instruments, such as Draeger Tubes, OVA = Organic Volatile Analyzer, CGM = Combustible Gas Meter, FLID = Flame Ionization Detector, PID = Photoionization Detector
3.3	Application - Given a scenario for a specific waste matrix, describe the sampling methods, sampling equipment, and sample preservation methods.
3.4	Declarative - Identify how specific analytical results correlate to waste characterization and specific treatment standards
3.5	Declarative - Identify standardized test methods used in waste characterization and/or determining DOT hazard class
3.6	Declarative - Identify proper sampling procedures and pertinent sampling media for the establishment of appropriate administrative and engineering controls
4	Site Investigation and Remediation 14.04%
4.1	Declarative - Identify potential physical or chemical hazards that may arise when a task is being performed and determine the engineering controls, administrative controls, and PPE requirements
4.2	Declarative - Identify procedures to conduct a site investigation/assessment
4.3	Declarative - Identify appropriate abatement methods based on investigation and risk assessment data
4.4	Declarative - Identify site hazard characteristics and select appropriate administrative and engineering controls including PPE
4.5	Declarative - Identify steps for long-term monitoring of hazardous waste
5	Program and Project Management 16.92%
5.1	Declarative - Identify hazardous waste programs scope including managing cradle-to-grave responsibility



5.2	Declarative - Identify requirements of the Hazard Communication Standard (HCS)
5.3	Declarative - Identify training requirements for hazardous materials for OSHA, RCRA, and DOT
5.4	Declarative - Identify OSHA training requirements for general requirements and respiratory protection

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