

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-2025-0720) The General Duty Clause

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 <a href="https://hazmatsociety.org/">https://hazmatsociety.org/</a>, whose reason to exist is principally a focus on the education and training of IHMM's certificants.

Here <a href="https://hazmatsociety.org/education-training/">https://hazmatsociety.org/education-training/</a>, 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 Issues Raised by the proposed rule

## I. Statutory and Legal Issues

## 1. Conflict with Statutory Purpose

- The OSH Act (29 U.S.C. § 651(b)) explicitly requires OSHA to assure, "so far as possible," safe and healthful working conditions.
- Categorically exempting "inherently risky professional activities" risks contravening this mandate. The Act does not authorize OSHA to carve out industries or hazards based on their inherent danger.

## 2. Overreach of Interpretive Authority

- OSHA frames this as an "interpretation," but in effect it creates a substantive limitation on enforcement, though not for those outside the scope of the proposed rule.
- Courts may find this exceeds OSHA's authority under §§ 654 and 655, especially given the Supreme Court's curtailment of Chevron deference (*Loper Bright v. Raimondo*, 2024).

## 3. Major Questions Doctrine

 Exempting broad classes of hazards from federal oversight arguably involves a "major question" of economic and political significance. Without clear congressional authorization, courts may strike down the rule.

## 4. Arbitrary and Capricious Standard (APA)

 OSHA must provide a reasoned explanation supported by data from ccompanies as to why certain risks cannot be feasibly mitigated.  A categorical exclusion may fail judicial review if OSHA does not adequately distinguish between "truly inseparable" risks and those where feasible protective measures exist.

## II. Practical and Enforcement Issues

## 5. Line-Drawing Problems

- o The rule lacks clear criteria for what qualifies as "inherent and inseparable."
- Example: A firefighter faces risks from fire itself (inherent) but the lack of flameresistant PPE is not inherent. Requiring firefighters to wear fall protection while battling a fire on a roof would fundamentally alter their activity. The proposed rule risks blurring this distinction.

## 6. Regulatory Gaps

- Without GDC enforcement, workers in high-risk sectors may be left unprotected where no specific OSHA standard applies. Short of eliminating the hazard, there will be a risk. To the extent that the risk can be reduced without fundamentally altering the activity, these should be implemented.
- Creates uncertainty for both employers and employees on the scope of enforceable obligations.

## 7. Inconsistent State Implementation

 State-plan states may refuse to adopt this limitation, resulting in a patchwork of standards across the country. Employers operating in multiple jurisdictions will face compliance confusion. While employers face this problem currently, it needs to be eliminated.

## **III. Policy and Worker Protection Concerns**

### 8. Erosion of Worker Safety Protections

 This rule could be perceived as signaling that some workers—police officers, firefighters, healthcare workers, athletes, entertainers—are entitled to less federal protection than others.

## 9. Deterrent Effect on Safety Innovation

 OSHA citations under the GDC often spur employers to adopt innovative practices where specific standards lag. Removing GDC oversight may discourage investment in new protective technologies.

## 10. Disparate Impact on Vulnerable Workers

Workers in inherently risky jobs are often lower-wage or in public service sectors.
 Excluding them from GDC protections may exacerbate inequities. We recommend collecting additional data on this point.

## 11. Potential Liability Shift

By limiting OSHA enforcement, more liability could shift to state workers' compensation systems or private litigation, creating inconsistent remedies and increasing employer exposure in tort.

## IV. Recommendations for OSHA to Consider

## 12. Narrow Tailoring Instead of Categorical Exemption

- OSHA could limit GDC enforcement only where:
  - (a) hazards are demonstrably inseparable from the work itself; and
  - (b) feasible controls or protective measures cannot materially reduce the risk.

## 13. Safe Harbor Guidance Rather than Rulemaking

Instead of a blanket exemption, OSHA could issue non-binding guidance to clarify how it evaluates "inherent hazards" case by case. OSHA could also provide guidance that employers rely on a risk assessment to identify and support the employees who fall under the scope of the rule. OSHA would still have the ability to cite under the GDC should they determine the employer did not adequately support the exemption

## 14. Periodic Review and Sunset Provision

 OSHA should commit to reviewing this exemption periodically, considering evolving technologies and safety practices that may render previously "inherent" hazards controllable.

## **IHMM Comments on the Proposed Rule**

The Institute of Hazardous Materials Management ("IHMM") respectfully submits these comments in response to OSHA's Notice of Proposed Rulemaking ("NPRM") concerning the Interpretation of the General Duty Clause: Limitation for Inherently Risky Professional Activities, 90 Fed. Reg. 28370 (July 1, 2025). We appreciate OSHA's willingness to extend the comment period to allow for meaningful stakeholder input.

IHMM is a nonprofit professional credentialing body accredited under ISO/IEC 17024, representing thousands of safety, health, environmental, and hazardous materials professionals across the United States and internationally. Our certificants—including Certified Safety and Health Managers (CSHMs), Certified Hazardous Materials Managers (CHMMs), and others—work daily at the intersection of occupational health, regulatory compliance, and risk management. Accordingly, IHMM has a strong interest in the scope and interpretation of the Occupational Safety and Health Act's General Duty Clause ("GDC"), 29 U.S.C. § 654(a)(1).

We recognize OSHA's intent to provide clarity regarding inherently risky professional activities. However, we respectfully submit that the NPRM, as drafted, raises substantial legal, policy, and practical concerns. Unless revised, the rule risks narrowing OSHA's statutory mandate, leaving gaps in worker protection, and creating significant uncertainty for employers and employees alike.

## I. Statutory Framework and Legal Risks

The OSH Act directs OSHA "to assure so far as possible every working man and woman in the Nation safe and healthful working conditions." 29 U.S.C. § 651(b). Section 5(a)(1), the General Duty

Clause, is Congress's "catchall" provision ensuring that recognized hazards not covered by specific standards remain subject to enforcement.

- Conflict with Statutory Purpose. The NPRM's categorical exclusion of hazards deemed "inherent and inseparable" risks undermining Congress's stated purpose. The OSH Act does not authorize OSHA to decline enforcement simply because a hazard is characteristic of a profession. To the contrary, the Act was premised on reducing risks even in hazardous occupations.
- 2. Overreach of Interpretive Authority. While OSHA describes this as an "interpretive" rule, its legal effect is substantive—it limits the scope of enforceable employer obligations. Under the Administrative Procedure Act ("APA"), 5 U.S.C. § 553, such a limitation requires rigorous justification. After *Loper Bright Enterprises v. Raimondo* (2024), courts will no longer defer to agency interpretations absent clear statutory authority. OSHA must therefore demonstrate that the OSH Act permits this narrowing.
- 3. Major Questions Doctrine. The Supreme Court has emphasized that agencies may not decide questions of vast economic and political significance without clear congressional authorization (*West Virginia v. EPA*, 597 U.S. 697 (2022)). Exempting entire categories of workers from OSHA's GDC coverage implicates precisely such a "major question."
- 4. Arbitrary and Capricious Risk. Under *Motor Vehicle Mfrs. Ass'n v. State Farm*, 463 U.S. 29 (1983), an agency rule is invalid if it fails to articulate a rational connection between the facts found and the choice made. OSHA must explain why certain risks cannot be feasibly mitigated and why a categorical exemption is superior to case-by-case enforcement. Absent robust evidence, the rule may fail judicial review.

## **II. Enforcement and Practical Concerns**

- 1. Line-Drawing Problems. The NPRM provides no clear criteria for distinguishing hazards that are "inherent and inseparable" from those that are inherent but still capable of mitigation. For example:
  - Firefighters inherently face the risk of fire, but inadequate protective equipment is a preventable hazard.
  - Police officers face risk of assault, but absence of body armor or training is not "inseparable."
  - Healthcare providers face exposure to pathogens, but failure to provide PPE or vaccinations is not inherent.

Without precise boundaries, employers, employees, and enforcement personnel will face confusion, leading to uneven application and increased litigation.

- 2. Regulatory Gaps. OSHA standards do not—and cannot—cover every workplace hazard. The GDC is critical to filling these gaps. By removing entire categories of risk from its scope, OSHA risks leaving workers unprotected where no specific standard exists. This gap would be especially significant in rapidly evolving fields such as biotechnology, emergency response, or public security.
- 3. Inconsistent State Implementation. Section 18 of the OSH Act permits state-plan states to implement their own occupational safety and health programs, provided they are "at least

as effective" as federal standards. If OSHA adopts this limitation, state programs may diverge—some adopting the exclusion, others retaining broader GDC protections. This will create a patchwork of obligations for multi-state employers and inconsistent protections for workers.

## III. Policy Concerns and Worker Protection

- 1. Erosion of Worker Safety Protections. By declaring that some risks are "inseparable" from professional duties, OSHA risks signaling that workers in high-risk professions are entitled to less protection than others. This contravenes both the spirit and text of the OSH Act.
- 2. Deterrent Effect on Innovation. Historically, GDC enforcement has driven employers to adopt innovative protective measures even in inherently hazardous industries. If employers are assured that OSHA will not enforce the GDC, investment in safety technologies may decline.
- 3. Disparate Impact on Vulnerable Workers. Professions most affected by this rule— emergency responders, law enforcement, healthcare staff, athletes, and entertainment workers—often include lower-wage or public-sector workers with limited bargaining power. Excluding them from GDC protections risks exacerbating existing inequities.
- 4. Liability Shift. By narrowing OSHA enforcement, responsibility for workplace safety disputes may shift to state workers' compensation systems or private tort litigation. This undermines the uniformity and predictability that the OSH Act was designed to provide.
- 5. Recognition of Inherent Risk Must Not Equal Regulatory Immunity. The acknowledgment that certain professions involve unavoidable hazards should not exempt employers from their duty to implement all feasible safety measures. Risk inherent to a profession does not negate the obligation to mitigate it. - Potential for Misuse in High-Risk Industries. Where regulatory enforcement is often inconsistent, this interpretation could be misapplied to justify unsafe practices in sectors such as entertainment, emergency response, and construction. OSHA's leadership sets a precedent that may influence regional policy. -Need for Clear Criteria and Documentation Standards. If this interpretation is adopted, OSHA should establish strict documentation requirements for employers claiming exemption under the "inherent risk" clause. This includes: - Risk assessments conducted by qualified professionals. - Evidence of training, PPE, and administrative controls. -Incident history and corrective action plans. Recommendations - Define "Reasonable Mitigation" in the Context of Inherent Risk. OSHA should provide examples of what constitutes "reasonable" mitigation for inherently risky activities, including minimum standards for training, supervision, and emergency preparedness. - Require Third-Party Certification for High-Risk Professions. Employers seeking exemption should be required to obtain third-party certification of their safety programs from accredited bodies. - Include a Sunset Clause or Periodic Review. This interpretation should be subject to review every three years to assess its impact on worker safety and enforcement consistency. - Promote Ethical Oversight OSHA should reaffirm that ethical responsibility for worker safety remains paramount, even in high-risk professions. The principle that "no one should die for a paycheck" must remain central to all interpretations of the General Duty Clause.

## IV. Recommendations

IHMM respectfully urges OSHA to consider alternative approaches that preserve worker protections while addressing legitimate concerns about enforcement overreach:

- 1. Narrow Tailoring Rather Than Categorical Exemption. OSHA could limit GDC enforcement only where:
  - o (a) the hazard is demonstrably inseparable from the work itself, and
  - (b) feasible measures cannot materially reduce the risk, where supported by risk assessment.

This would preserve OSHA's ability to address hazards where protective technologies exist but are not used.

- 2. Guidance Rather Than Rulemaking. OSHA could issue interpretive guidance or compliance directives clarifying how it evaluates "inherent" hazards in enforcement decisions, rather than foreclosing enforcement altogether.
- Case-by-Case Safe Harbor. OSHA could establish rebuttable presumptions or safe harbors in defined industries, subject to the employer's demonstration that no feasible abatement exists.
- 4. Periodic Review and Sunset Provision. OSHA should commit to reviewing the scope of any exemption at regular intervals, taking into account evolving technologies and practices that may render previously "inherent" hazards controllable.

### V. Conclusion

IHMM appreciates OSHA's efforts to clarify the scope of the General Duty Clause and its recognition of stakeholder concerns. However, we respectfully submit that the proposed categorical exclusion of inherently risky professional activities exceeds OSHA's statutory authority, risks judicial invalidation, and undermines the Act's central purpose.

We urge OSHA to reconsider this approach and adopt narrower, evidence-based alternatives that balance regulatory clarity with the OSH Act's core commitment to protecting all workers "so far as possible."

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

Cycusty Afoc, to CRE Eugene A. Guilford, Jr., CAE

Executive Director gguilford@ihmm.org

## **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 decisionmaking 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).	



1		
4.2	Procedural: Given a scenario, identify compliance management operations	
4.2	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	
7.7	continuity principles and practices in the event of an emergency.	
4.5	Declarative: Identify data storage security principles and practices.	
4.6	Declarative: Identify data storage security principles and practices.  Declarative: Identify requirements to manage and keep confidential employee	
4.6	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,	
5.8	determine an effective methodology to promote safety for a specific industry.  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.	13.00
6.2	Procedural: Given a scenario, identify causal factors.  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 <u>Candidate Handbook</u> available at <u>www.ihmm.org</u>. If you have questions about the CSHM Blueprint, please contact M. Patricia Buley at <u>pbuley@ihmm.org</u>.

## **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, deenergize, permit to work, barricades; focus on basic terms.)	
3.19	Declarative: Identify the basic requirements for emergency response plan elements for hazardous substances release.	



4.6	Declarative: Identify the three steps of posting requirements.	
	prevent accidents.	
4.5	Declarative: Identify the available resources that can assist with trainings to help	
4.4	Declarative: Identify what is an OSHA non-recordable statistic.	
4.3	serious injury, or death.  Declarative: Identify what is an OSHA recordable statistic.	
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	
4.1	Declarative: Identify the steps to conduct an accident investigation, including who, what, where, when, how, and why.	
4	Accident Investigation and Prevention	16.19
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.	
3.32	Declarative: Identify the requirements for OSHA 300 record-keeping and other employer-related records for occupational health and safety logs.	
3.31	Declarative: Identify the adult first aid, CPR, and AED requirements and certification for specific industries.	
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.	
3.29	Declarative: Identify the regulations for drinking and potable water and sanitation in workplace settings, i.e., break areas, work areas, lunchroom, first aid station.	
3.28	Declarative: Identify the requirements and standards for warehouse safety including industrial trucks, stacking, walking/working surface, forklift, chocking, training PIT operators.	
3.27	Declarative: Identify the safety and regulatory requirements for operations of powered industrial trucks (various types) including the requirements for operator training.	
3.26	Declarative: Identify the safety and regulatory requirements for fall protection, ladder safety, barriers, and use of scaffolds.	
3.25	Declarative: Identify the types of fire protection systems, alarm systems, and fire prevention concepts.	
3.24	Declarative: Identify the health and safety requirements for working with and transporting propane.	
3.23	Declarative: Describe the concepts of Ionizing and Non-Ionizing Radiation (effects, definitions, eliminate a source of exposure, electric magnetic PPE, signage).	
3.22	Declarative: Identify the various types of cranes and hoists and understands the safety requirements for operating or working around this equipment.	
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.	
3.20	Declarative: Identify the hazards associated with compressed gases including flammable gases, LP gas, and welding and cutting gases.	



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 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 October 2020

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
1.0 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, etc.), identify the constituent that n mixture hazardous.	nakes this
1.4 Given a scenario about pollution prevention, identify the preferred strategy that should be used	l.
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 e and sequence of events.	lements
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 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
- 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 quality/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.)

8.07 7 Training Personnel

- 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, etc.)
- 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 stakeholders and the process for stakeholder communication.
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 cost-benefit analysis.
10.9 Given a scenario, describe operations that require a written 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.

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12.8 Identify labeling requirements for products.

## **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.

DO	DOMAINS AND COMPETENCIES/TASKS % of Exam	
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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