



INSTITUTE OF HAZARDOUS MATERIALS MANAGEMENT



Certified Pandemic Preparedness Specialist (CPPS) Exam Specifications (Blueprint)

Effective January 1, 2022

A Certified Pandemic Preparedness Specialist (CPPS) Microcredential holder is first a CHMM or CSHM credentialed professional who has demonstrated, through education, experience, and examination, the ability to identify and assess the risks associated with pathogens and their effect on public health, commerce, industry, and/or government operation. The focus of the CPPS microcredential is to: assess and provide guidance concerning the preparedness levels of different entities, and develop and implement risk-reduction strategies.

Common functions may include training needs assessment, identifying supply chain challenges, best practices and technologies associated with identified risks, leading multi-stakeholder meetings, and related duties. Mastery of International Standards including ISO 45006 Managing Infectious Diseases as well as ISO 45001 Occupational Health and Safety Management Systems, serves as a basis for this International IHMM Microcredential.

Prerequisites: *BS in Science or related scientific disciplines such as biology, virology, or chemistry from a 4-year accredited academic institution, or 5 years of demonstrated experience in all of the areas of pandemic preparedness below, and the holder of an IHMM CHMM or CSHM credential.*

The CPPS examination is a testing instrument designed to evaluate a candidate's minimal competency in the field of pandemic preparedness. 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 pandemic preparedness professionals 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 CPPS examination devoted to that domain. Tasks provide a reference for activities conducted under each domain.

DOMAINS AND COMPETENCIES/TASKS	% of Exams
1.0 Microbiology	15
1.1 General Understanding of Vectors	
1.2 Basic Testing and Identification	
1.3 Transmission (Vector and Routes of Exposure)	
2.0 Virology	15
2.1 General Understanding of Viruses	
2.2 Basic Testing and Identification	
2.3 Transmission (Vector and Routes of Exposure)	
3.0 Biosafety Level [BSL]	12
3.1 Understanding of BSL	
3.2 PPE and Controls	
4.0 Risk Assessment	30
4.1 Understanding and Principles of Risk Assessment	
4.2 Identification of Vulnerable Populations	
4.3 Vector Modeling Methods	
4.4 Threat Assessment - Primary/Direct	
4.5 Consequence Management	
4.6 Response Planning	
4.6.1 Supply Chain/Logistics	
4.6.2 PPE	
4.6.3 Emergency Response	
4.6.4 Emergency Medical Response	
4.6.5 Public Health	
4.6.6 Decontamination/Treatment	
4.6.7 Medical/Infectious Waste Disposal	
5.0 Project Management	15
5.1 Communication - Oral and Written	
5.2 Project Planning	
5.3 Budgets and Procurement Planning	
5.4 Fundamentals of PM (Scheduling, critical path)	
5.5 Constraints, limitations	

6.0 International Standards	13
6.1 ISO 45001 Occupational Health and Safety Management Systems	
6.2 ISO 45006 Managing Infectious Diseases	