



CPHIMS Competency Gap Assessment

HIMSS' Competency Gap Assessment will help you determine your readiness for the CPHIMSSM certification exam. It can also help you identify personal strengths and areas for growth to support your professional development objectives and help you acquire or strengthen skills and competencies required for success as a 21st century healthcare information technology leader.

The certification exam and this Competency Gap Assessment is prepared using the Outline of Exam Topics for the CPHIMS, which details the knowledge, skills and abilities needed to be a viable and effective information and management professional in today's healthcare environments.

1. HEALTHCARE AND TECHNOLOGY ENVIRONMENTS - 25%

- A. Healthcare Environment
- B. Technology Environment
- 2. CLINICAL INFORMATICS 20%

3. HEALTHCARE INFORMATION SYSTEMS MANAGEMENT - 30%

- A. Analysis
- B. Design
- C. Selection, Implementation, Support, and Maintenance
- D. Testing and Evaluation
- E. Privacy and Security
- 4. MANAGEMENT AND LEADERSHIP 25%

Under each of these essential skill areas are specific competencies identified in the Exam Content Outline. This Competency Gap Assessment is constructed from those competencies.

In each section of the Competency Gap Assessment, you should review the competency required. Using the keys provided, consider your current level of understanding and experience in each task area. This is your personal assessment of your competence, honesty with yourself is important. Then, determine the gap, if any, that exists and whether any additional development on your part is needed. This exercise will help you assess your current readiness for the CPHIMS certification exam and identify areas where additional experience, study, or mentoring would be beneficial.

Completing this Competency Gap Assessment does not ensure mastery of the competencies required for the CPHIMS certification exam but helps you assess your readiness, identify your current strengths, and chart a plan for gaining knowledge and skills in areas of desired growth.

Task Statements		
A. Healthcare Environment	Competence	Gap
Articulate characteristics and services of different types of healthcare organizations (e.g., hospitals, clinics, ambulatory centers, community health organizations, healthcare payers, regulators, research and academic)	1234	123
Articulate characteristics of interrelationships within and across healthcare organizations (e.g., health information exchange, public, private, continuity of care)	1234	123
Describe the roles and responsibilities of healthcare information and management systems professionals within the organizational structures in which they work	1234	123
Recognize the impact of commonly accepted laws, regulations, accreditation and other state and local rules that govern critical healthcare information and systems management services, including privacy, safety and security (e.g., privacy regulations, pharmacy, environments of care, patient rights) on the healthcare industry	1234	123
Evaluate trends in healthcare technology and implement strategies to improve patient outcomes (e.g., telemedicine, patient portals, wearable devices, population health)	1234	123
B. Technology Environment	Competence	Gap
Articulate characteristics of applications commonly used in healthcare (e.g., clinical, administrative, financial, consumer, business intelligence)	1234	123
Articulate characteristics of technology infrastructure that support the healthcare environment (e.g., network, communications, data integration, privacy and security)	1234	123
2 - CLINICAL INFORMATICS - 20%		
Task Statements	Competence	Gap
Identify basic clinical vocabulary/terms frequently represented in healthcare informatics (e.g. dosage frequency, dosage routes, body systems)	1234	123
Identify basic healthcare IT vocabulary/terms frequently represented in healthcare informatics	1234	123
Identify basic clinical metrics frequently represented in informatics (e.g., average daily census, turnaround time, adherence, barcode medication administration)	1234	123

2 - CLINICAL INFORMATICS (continued) - 20%		
Develop and implement system functionality to optimize clinical effectiveness and	1234	123
efficiencies Interpret clinical and operational outcomes through the use of various data analytics	1234	123
tools (e.g., reports, tables, graphs, charts, predictive models) Develop mechanisms to facilitate ongoing clinical content and decision-support tools	1234	123
3 – HEALTHCARE INFORMATION AND SYSTEMS MANAGEMENT- 30%		
Task Statements		
A. Analysis	Competence	Gap
Apply appropriate concepts of systems development (e.g., systems development lifecycle or SDLC)	1 2 3 4	1 2 3
Apply and utilize project management methodology components (e.g., needs analysis, gap analysis, defining and prioritizing requirements)	1234	123
Apply appropriate concepts of process improvement (e.g., DMAIC, PDCA)	1234	123
Utilize standard visualization tools to analyze and improve current business and clinical processes (e.g., process mapping, flow diagramming, gap analysis)	1234	123
Interpret and analyze disparate data sets	1234	123
Formulate alternate processes and potential solutions for new or improved applications and/or systems	1234	123
Evaluate if a proposed solution aligns with the organization's strategic and operational plans	1234	123
Perform cost-benefit analysis to evaluate impact on issues related to healthcare systems (e.g., customer satisfaction, patient care quality, economics, access to care, business process improvement)	1234	123
Develop proposals that include recommended approaches and solutions, and plans for realizing benefits	1234	123
Analyze and interpret business documentation to promote system changes and/or implementations (e.g., RFPs, RFIs, SLAs, SOWs, NDAs, etc.)	1234	123
B. Design	Competence	Gap
Ensure interoperability of software, hardware, network components and	1 2 3 4	1 2 3
medical devices		
Ensure compliance with applicable industry, regulatory and organizational standards	1234	123
Ensure a process exists to incorporate industry, technology, infrastructure, legal and regulatory environment trends	1234	123
Design an information infrastructure that supports current and anticipated business needs (e.g., business continuity, disaster recovery)	1234	123
Evaluate existing and emerging technologies to support organization's future growth and strategy	1234	123
Employ and implement effective data management using an established data governance protocol	1234	123
C. Selection, Implementation, Support, and Maintenance	Competence	Gap
Conduct solution selection activities (e.g., identify organizational	1 2 3 4	1 2 3
stakeholders, demonstrations, site visits, reference checks)	1 2 3 4	I Z J
Employ effective technical change management practices	1234	123

3 - HEALTHCARE INFORMATION AND SYSTEMS MANAGEMENT (continued) – 30%		
Identify and execute effective training and support methods (e.g., computer-based learning, classroom training, train the trainer, at-the-elbow support from superusers)	1234	123
Implement solutions while managing scope, schedule, budget, and quality	1234	123
Maintain healthcare information systems (e.g., operate, upgrade)	1234	123
Analyze data for problems and trends (e.g., error reports, help desk logs, surveys, performance metrics, network monitoring)	1234	123
D. Testing and Evaluation	Competence	Can
	Competence1 2 3 4	Gap 1 2 3
Administer a formal testing methodology (e.g., unit test, integrated test, stress test, acceptance test)	1 2 3 4	123
Implement and monitor compliance with internal controls to protect resources and ensure availability, confidentiality and integrity during testing (e.g., security audits, versioning control, change control)	1234	123
Validate implementations against contractual terms and design specifications	1234	123
Evaluate that expected benefits are achieved and report metrics (e.g., return on investment, benchmarks, user satisfaction)	1234	123
E. Privacy and Security	Competence	Gap
Define and implement organizational policies and procedures to ensure	1 2 3 4	1 2 3
confidentiality, privacy, security, availability, and integrity of data		
Assess and mitigate privacy and security vulnerabilities	1234	123
Define and implement user access controls according to established policies and procedures	1234	123
Assess and implement physical, technical, and administrative controls to ensure safeguards are in place to protect assets (e.g., servers secured, unattended computers, two-factor authentication)	1234	123
Define organizational roles responsible for managing vulnerabilities (e.g., information security, physical security, compliance)	1234	123
Develop and implement data management controls (e.g., data ownership, criticality, security levels, protection controls, retention and destruction requirements, access controls)	1234	123
Validate on an ongoing basis the security features of existing systems	1 2 3 4	123
4 – MANAGEMENT AND LEADERSHIP - 25%		
Task Statements	Competence	Gap
Contribute to organizational strategic planning (e.g., measure	1 2 3 4	1 2 3
performance against organizational goals)	1004	1 0 0
Assess the organizational environment (e.g., corporate culture, values and drivers)	1234	123
Forecast technical and information needs of an organization by linking resources to business needs	1 2 3 4	123
Develop and implement an IT strategic plan and departmental objectives that align and support organizational strategies and goals	1234	123
Evaluate performance (e.g., SLAs, goal/performance indicators, systems effectiveness)	1 2 3 4	123
Evaluate effectiveness and user satisfaction of systems and services being provided	1234	123

4 - MANAGEMENT AND LEADERSHIP (continued) - 25%		
Promote stakeholder understanding of information technology opportunities and constraints (e.g., business and IT resources, budget, project prioritization)	1234	123
Develop policies and procedures for information and systems management	1234	123
Comply with legal and regulatory standards	1234	123
Inderstand and comply with the organization's ethical business principles	1234	123
Employ comparative analysis strategies (e.g., indicators, benchmarks)	1234	123
Prepare and deliver business communications (e.g., presentations, eports, project plans)	1234	123
acilitate group discussions and meetings (e.g., consensus building, conflict resolution)	1234	123
Provide consultative technology services to the organization	1234	123
Develop educational strategies for the information and management systems function	1234	123
Maintain organizational competencies on current IT technologies and trends	1234	123
Apply effective risk management to internal and external processes e.g., risk assessment, risk mitigation)	1234	123
Maintain effective and ethical working relationships with internal and external stakeholders (e.g., clinicians, vendors, partners)	1234	123
Present interpretations and recommendations of data analyses to decision makers	1234	123
Employ organizational change management techniques in support of solution implementation	1234	123
Define roles, responsibilities and job descriptions for healthcare IT unctions	1234	123
Evaluate staff competency in information and management systems skills	1234	123
Vanage projects and portfolios of projects	1234	123
Manage contractual agreements with vendors and partner (e.g., contract cost, schedule, support, maintenance, performance)	1234	123
Manage budget and financial risks	1234	123

KEY:

Level of Competence

4 - Expert level of understanding/experience

3 - Moderate level of understanding/experience
2 - Basic level of understanding/little or no experience

1 - Little or no exposure

Development Gap

3-Little or no development needed 2-Some development needed 1-Considerable development needed