

PA Health I.T. Workforce Development Conference November 7, 2014

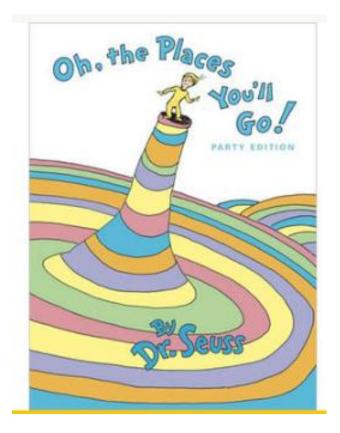


Health Informatics: Oh the Places You Can Go!

Keynote Session

Michelle Dougherty, AHIMA Foundation JoAnn Klinedinst, HIMSS

Some words of wisdom from Dr. Seuss...



"You have brains in your head. You have feet in your shoes. You can steer yourself any direction you choose. You're on your own. And you know what you know. And YOU are the one who'll decide where to go..."

Today's Faculty

Michelle Dougherty, MA, RHIA, CHP Senior Director, Research and Development AHIMA Foundation

JoAnn Klinedinst, MEd, DES, PMP, CPHIMS, FHIMSS Vice President, Professional Development HIMSS





Learning Objectives

- Define health informatics
- Discuss the opportunities for a 21st Century Workforce
- Identify expectations associated with value-based competencies
- Review the applicability of the US Department of Labor's Apprenticeship Model to health informatics
- Discuss the types of positions available in the health informatics setting
- Discover the importance of continuing professional development





AHIMA: Who We Are

The American Health Information Management Association (AHIMA) is the premier association of health information management (HIM) professionals worldwide leading the health informatics and information management community to advance professional practice and standards.

Informatics: Transforming data into Health Intelligence
Leadership: Developing HIM leaders across all healthcare sectors
Information Governance: Being recognized as the health industry experts in information governance
Innovation: Increasing thought leadership and evidence-based research
Public Good: Empowering consumers to optimize their health through management of their personal health information





About AHIMA

- Founded in 1928 and the AHIMA Foundation founded in 1962 supporting HIM Education, Research & Philanthropy
- Over 70,000 members worldwide
- Multiple communications to share ideas, knowledge, and best practices (journals, newsletters, online communities, and the HIM Body of Knowledge
- Offering nine industry-recognized professional certifications (CCHIIM)
- Established academic curricula competencies for HIM, partners for the accreditation of academic programs (CAHIIM) and offers a virtual laboratory
- Health Information Research Network
- Awarded over 45 academic scholarships





About AHIMA

 Serving 52 affiliated <u>component state associations</u>



 Supports the International Federation of Health Information Management Associations (IFHIMA) worldwide

PHIMA President

Laurie Johnson, MS, RHIA, CPC-H, FAHIMA Phone: 724-295-9682 Ijohnson@peakhs.com

PHIMA Central Office

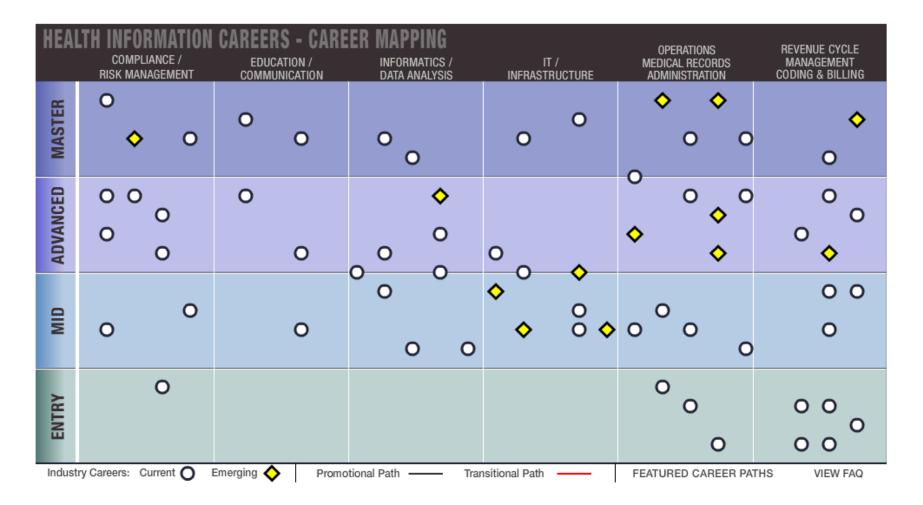
Linda McLinden, RHIA PO Box 3512 Allentown, PA 18106-0512 Phone: 610-554-7928 email: <u>Imclinden@phima.org</u>

PHIMA: http://www.phima.org/index.html





Health Information Workforce



Available at: http://hicareers.com/CareerMap/



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HIMSS: Who We Are

HIMSS is a cause-based, global enterprise producing health IT thought leadership, education, events, market research and media services around the world.



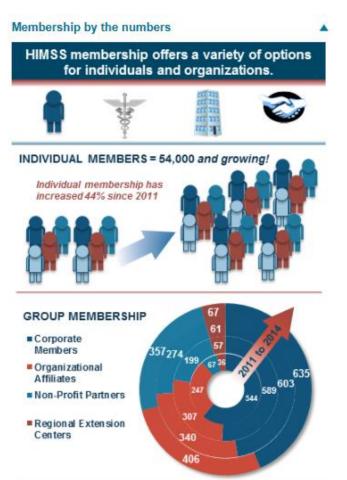
About HIMSS

- 52,000+ Individual Members of which 73% work in the field (non-vendors, non-consultants)
- 600 Corporate Members
- 4 corporations, over 240 staff
- Offices: Chicago IL, Arlington VA, Ann Arbor MI, Brussels, Singapore, Leipzig, Berlin, Burlington, VT
- 9th largest healthcare association worldwide





HIMSS Members by the Numbers...

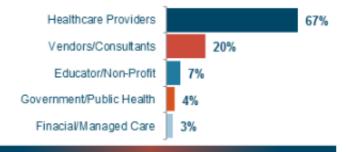


WHO ARE HIMSS MEMBERS?

PROFESSIONAL TITLES



WORK PLACE







A National Presence and Beyond...



HIMSS Western Pennsylvania Chapter

Pittsburgh, Pennsylvania United States Chapter President: Otto Salguero Territory: Serving the counties of Pennsylvania: Erie, Warren, Crawford, Venango, Forest, McKean, Elk, Clearfield , Jefferson, Clarion, Mercer, Lawrence, Butler, Armstrong, Indiana, Blair, Cambria, Bedford, Somerset , Westmoreland, Allegheny, Beaver, Washington, Greene & Fayette Counties Email: wpa.president@himsschapter.org

HIMSS Central Pennsylvania Chapter

Harrisburg, Pennsylvania United States Chapter President: Edith Dees Territory: Serving the central counties of Pennsylvania: Potter, Tioga, Lycoming, Clinton, Cameron, Centre, Union, Snyder, Dauphin, Perry, Juniata, Mifflin, Huntingdon, Fulton, Franklin, Cumberland, Adams & York Counties Email: cpa.president@himsschapter.org





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What is Health Informatics?

Medical Informatics Defined

What is Health Informatics?

As defined by the U.S. National Library of Medicine, health informatics is the interdisciplinary study of the design, development, adoption and application of ITbased innovations in healthcare services delivery, management and planning.

Himss

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WESTERN PENNSYLVANIA Chapter

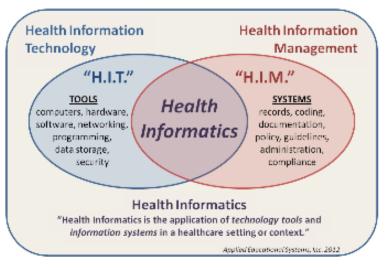
^{th T}Source: http://himss.files.cms-plus.com/2013-12-31-What-Is-Physician-Informatics.pdf

"Health Informatics is the application of technology tools and information systems in a healthcare setting or context."

Source: http://blog.aeseducation.com/2012/03/health-information-technology

Health Informatics Proposal for New Standard Occupational Classification

Definition: Health Informatics workers apply science to ensure the effective use of data, information, and knowledge that supports the safe and effective delivery of healthcare and improve health and wellness. Workers apply interdisciplinary knowledge, skills, and tools; enabling information to be collected, managed, used, and shared safely to support the delivery of healthcare and to promote health.



Health Informatics Across Disciplines & Education Level

	Informatics program category							
Degree levels in each program	Health*	Medical†	Nursing‡	Bioinformatics§	Cheminformatics**	Dental**	Pharmacy*	
Bachelor's	3			12	1			
Bachelor's and master's	2	1		5				
Bachelor's, master's, and PhD				7				
Graduate certificate	6	1	2	3				
Graduate certificate and master's			6	5				
Graduate certificate, master's, and PhD		4		3				
Master's	14	6	11	16				
Master's and PhD	7	5	1	21	2	1		
PhD		3		19				
Residency or fellowship						1	9	
Totals	32	20	20	91	3	2	9	

Programs titled as and/or offering degrees in medical or biomedical informatics.

1 Programs offering advanced nursing degrees with an informatics component, are affiliated with a nursing school or department, and are accepting students with nursing experience.

5 Programs described as "bioinformatics" or "computational biology" and offering degrees in these or related fields with relevant focus or specialization.

** Programs titled as and/or offering a degree or specialization in cheminformatics, dental, or pharmacy informatics, respectively.

Findings from 2010 JMLA Survey of Biomedical and Health Informatics Programs in the U.S.





Bright Occupational Outlook



Occupations matching "health information management"

The search results are listed in a rank order that is calculated on the <u>relevance</u> of the occupational title, alternate titles, description, tasks, and detailed work activities associated with the keyword you entered.

Select the Relevance Score to view the specific items matched by your search within the occupation.

Relevance Score	Code	Occupation
100	29-2071.00	Medical Records and Health Information Technicians
87	11-9111.00	Medical and Health Services Managers
87	21-1094.00	Community Health Workers 🌼
78	21-1091.00	Health Educators
70	15-1121.01	Informatics Nurse Specialists 🧕
70	21-1014.00	Mental Health Counselors
<u>69</u>	29-9012.00	Occupational Health and Safety Technicians // Green
<u>68</u>	29-9011.00	Occupational Health and Safety Specialists 🖉
66	15-1199.09	Information Technology Project Managers 🤗
<u>62</u>	19-2041.00	Environmental Scientists and Specialists, Including Health 🖉
<u>59</u>	19-4091.00	Environmental Science and Protection Technicians, Including Health 🖉
<u>59</u>	17-2111.01	Industrial Safety and Health Engineers 🖉
58	11-3021.00	Computer and Information Systems Managers
<u>56</u>	13-1111.00	Management Analysts 🧶

Occupation Quick Search:

Share

•••

O*NET Sites

Pennsylvania Health Information

Management Association



Browse by O*NET Data: 😱 🕥

Bright Outlook

- 0

UNITED STATES DEPARTMENT OF LABOR					A to Z Index FAQs About BLS Contact Us Subscribe to E-mail Updates GO					
쑺 Bureau of Labor Statistics					Follow Us 🏏 What's New Release Calendar Site Map Search BLS.gov					
			Economic Releases 🔻	Students 🔻	Beta 🔻					

Standard Occupational Classification

BROWSE SOC

SOC HOME

2018 SOC REVISION PROCESS

2010 SOC SYSTEM

2010 SOC DOWNLOADABLE MATERIALS

2010 SOC PUBLICATIONS

2010 SOC CROSSWALKS

2010 SOC REVISION PROCESS MATERIALS

2000 ARCHIVED MATERIALS

CONTACT US

SEARCH 2010 SOC DEFINITIONS:

Go

The 2010 Standard Occupational Classification (SOC) system is used by Federal stat categories for the purpose of collecting, calculating, or disseminating data. All worke according to their occupational definition. To facilitate classification, detailed occupat minor groups, and 23 major groups. Detailed occupations in the SOC with similar job training, are grouped together. General questions concerning the SOC may be sent t

On This Page

- 2018 SOC Revision Process
- » 2010 SOC System
- » 2010 SOC Downloadable Materials
- » 2010 SOC Publications

- » 2010 SOC Crosswalks
- » 2010 SOC Revision Proc

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- » Other Useful Links
 - » Contact Us

SOC Data Uses

- •Track national occupation data
- Identifies trends
- Used by government and employers
- Provides data on salary and education
- Used by colleges & universities





Collaboration on a Health Informatics Standard Occupational Classification Submissions – July 2014

 Proposed Health Informatic SOC
 Gap Healthcare
 Gap Healthcare
 Gap Healthcare
 Gap Mathematical

Rationale:

- Lack of accurate employment data in an area of US investment
- Inability by employers to recruit, retain, and appropriately compensate workers with the needed skill set.
- Colleges and universities find it difficult to develop new academic programs to meet employer demands for health informatics
- Students in health informatics academic programs are unable to apply for federal student aid under Title 4 funding.
- Registered apprenticeship programs for health informatics practitioners cannot be developed due to the lack of an SOC.
- Health informatics practitioners will not find their occupational data for correct reporting on the U.S. Census.

Alliance of Nursing Informatics (ANI) American Health Information Management Association (AHIMA) American Medical Informatics Association (AMIA) Cuyahoga Community College (TRI-C) Center for Disease Control and Prevention (CDC) College of Healthcare Information Management Executives (CHIME) Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM) Commission on Certification for Health Informatics and Information Management (CCHIIM) Health Information Management Systems Society (HIMSS) Minnesota Department of Health (MDH) Minnesota e-Health Initiative (a Public-Private Collaborative) (MDH) Oregon Health and Science University (OHSU) University of Colorado Denver Anschutz Medical Campus (CU) University of Minnesota, Institute for Health Informatics (U of M) University of Pittsburgh Department of Health Information Management School of Health and Rehabilitation Sciences (Pitt) University of Texas School of Biomedical Informatics at Houston

(<u>UTH</u>)

Department of Veterans Administration, Health Informatics Department (VHA)





Examples of Health Informatics Jobs & Roles from SOC Proposal

Management

- Bioinformatics Advisor
- Chief Medical Information Officer
- Chief Public Health Informatics Officer
- Chief Nursing Information Officer
- Chief Health Information Officer
- Clinical Informatics Director
- Clinical Information Systems Director
- Director Clinical Information Services
- Health Informatics Researchers/ Scientists
- Professor Health/Clinical Informatics

Practitioners

- Bioinformatics Specialist/Analyst
- Clinical Informatics Specialist/Analyst
- Clinical Applications Specialist/ Coordinator
- Health Data Analyst/Specialist
- Health Informatics Specialist
- Informatics Analyst/Specialist/Coordinator
- Terminology Specialist
- Nursing Informaticist/Informatician
- Physician Informaticist/Informatician
- Pharmacy Informatics Specialist
- Laboratory Informatics Specialist
- Imaging Informatics Specialist
- Public Health Informatics Specialist



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Healthcare jobs will grow faster than any other sector

To meet growing demand for care, the number of healthcare professionals will have to expand by almost 30 percent overall by 2020—the most dramatic growth of any sector of the U.S.

Source: Georgetown University Center on Education and the Workforce forecasts of educational demand through 2020





Healthcare jobs will require higher levels of education

In 2020 healthcare professional and technical jobs will have the highest concentration of postsecondary attainment among all U.S. jobs (92%).

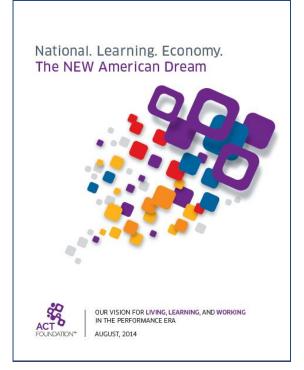
Source: Georgetown University Center on Education and the Workforce forecasts of educational demand through 2020





Building A Learning Economy

- In addition to infrastructure, a strong HIT Ecosystem is supported by several components, including a learning economy powered by the individual
 - knowledge = crucial resource
 - learning = the most important process
- A learning economy
 - Develops skills
 - Promotes experiential learning and innovation
 - Critical to the growth of communities and the marketplace
 - Builds competence through a foundation of knowledge



<u>http://actfdn.org/wp-</u> content/uploads/2014/07/ACTFoundati on_VisionPaper_Aug2014.pdf





The Learning Economy has several points of direct translation to the work the key groups and initiatives have been doing to date

Needs Assessments/Gap Analyses/ Job Market (ASSESSING DEMAND)

Frameworks/Training Approaches/AHIMA Tool/HITCOMP Tool (LEADING INNOVATION) Workforce (Current and Future)/Career Progression/Management (DEVELOPING SUPPLY)



Surveys/Studies/ Competency Mapping/ Curriculum Assessment and Development

(APPLYING EVIDENCE)

NTRAL PENNSYLVANIA Chapter WESTERN PENNSYLVANIA Chapter



Common Employability Skills

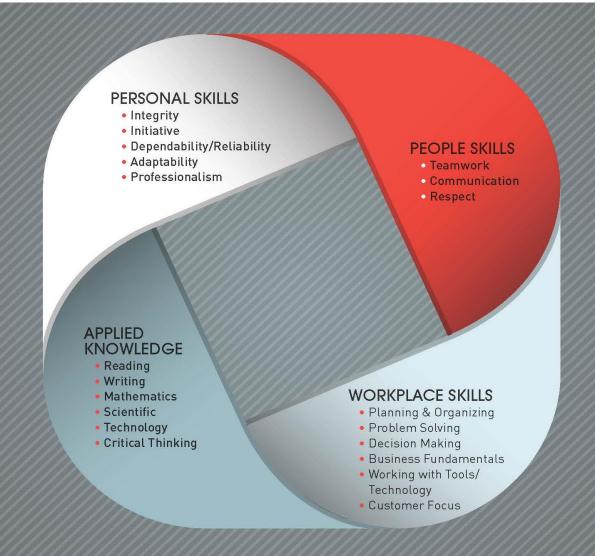
To accomplish this goal, we will begin by developing a language around common employability skills related to:

- Personal skills
- People skills
- Applied knowledge
- Workplace skills





National Network for Industry and Business Associations





PHIMA AHIMAAFFIIATE Pennsylvania Health Information Management Association

Staffing and Management: HR Survey*

Have you noticed a difference in the quality and productivity of work performed by those with **industry-recognized, competency-based credentials/certifications** and those who do not?

	Not at All	Sometimes	Often	Always	Not Sure	N/A
Orientation Period	6.38%	36.17%	19.15%	6.38%	12.77%	19.15%
First Six Months	4.26%	23.40%	38.30%	6.38%	12.77%	14.89%
Year One	6.52%	28.26%	28.26%	10.87%	13.04%	13.04%
Year Two	10.87%	23.91%	26.09%	10.87%	13.04%	15.22%
Beyond Year Three	10.87%	36.96%	15.22%	8.70%	13.04%	15.22%

*September 2014 Survey conducted of HR Directors at employers across industries. Sponsored by DirectEmployer Association, AHIMA Foundation and the National Network of Business and Industry Associations . Survey unpublished at the time of this presentation.





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Policy Initiatives: Advancement of Registered Apprenticeship Programs

Why apprenticeship is a good idea in today's job market

The San Diego Daily Transcript (October 24, 2014)

Apprenticeships provide boost for skilledworker pool

Greenville Online (October 1, 2014)

Where Are All the Apprentices?

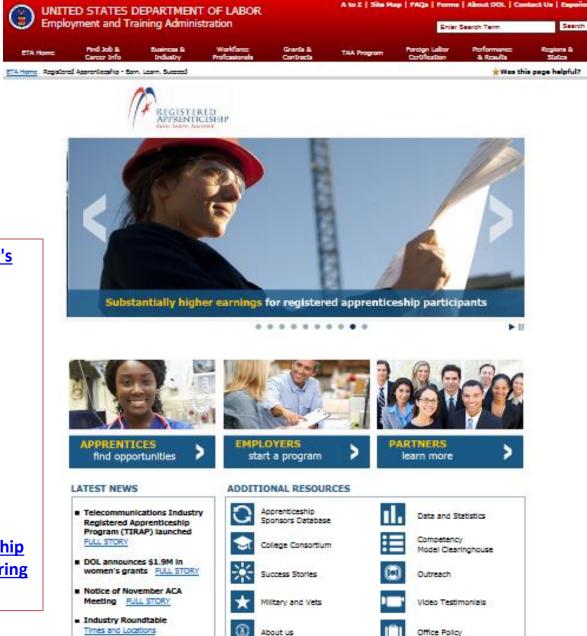
The ACHR News (October 6 2014)

<u>New apprenticeships introduced at 100s of</u> companies

Builder and Engineer (October 29, 2014) Kentucky Apprenticeships

Technology is Brining Back the Apprenticeship Model. It just has a different name: Mentoring Huffington Post (November 3, 2014)

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Notice of June ACA Meeting

FULL STORY

Management Association

Registered Apprenticeship Highlights

- An apprenticeship is a paid position that bridges education and employment in an organization.
- Apprentices start at an entry level scale of an occupation that increases as certain checkpoints are reached. They learn while
- you both earn, financially and professionally!
- Apprentices may be temporary or permanent employees and are usually full-time positions.





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2013 National Workforce Report HHS Office of the National Coordinator

- Most common positions for which employers are recruiting in the health IT space relate to:
 - information management,
 - clinical informatics, and
 - information technology support (e.g., equipment, development/programming, and software support).

Source: Hersh W. The Health Information Technology Workforce: Estimations of Demands and a Framework for Requirements. *Applied Clinical Informatics*.



2010;1(2):197-212.

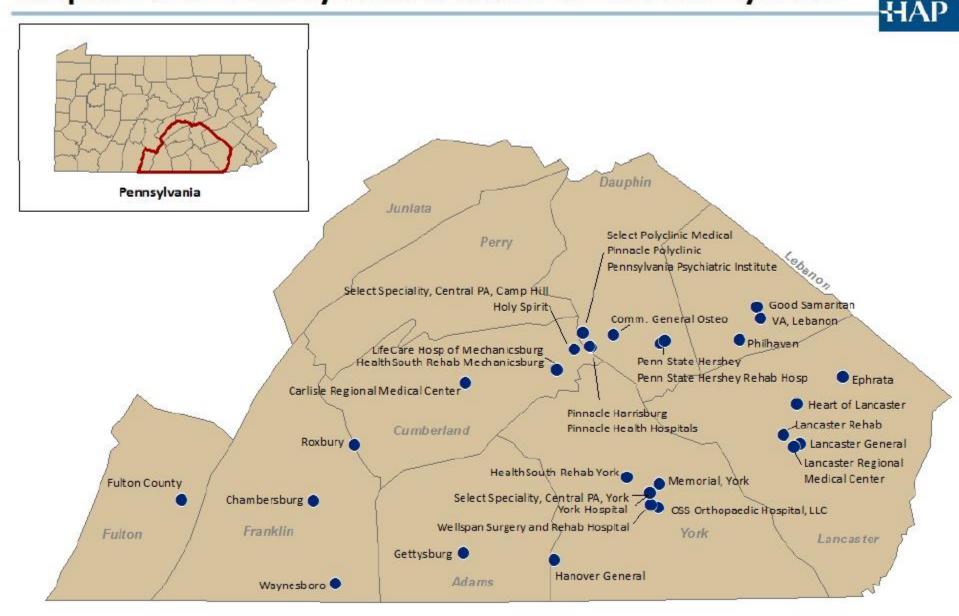
Hospitals and Healthsystems of Pennsylvania

HAP Regions

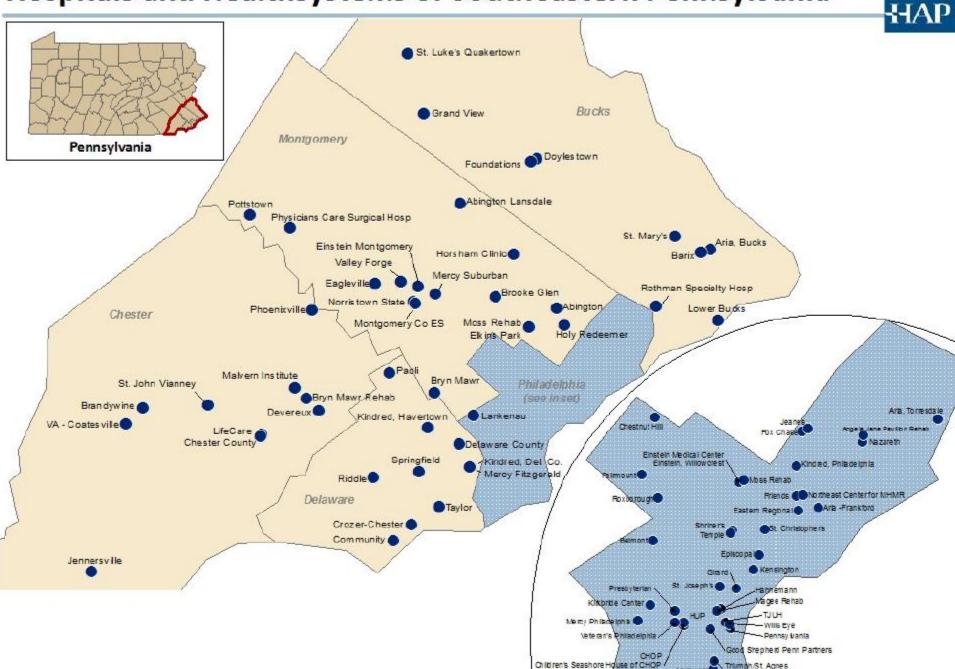


HAP

Hospitals and Healthsystems of South Central Pennsylvania



Hospitals and Healthsystems of Southeastern Pennsylvania



The importance of workforce intelligence...

Research

Essentials Report

CapSite Strategic Industry Reports

Market Research Services

Market Research Library

University Graduate Research

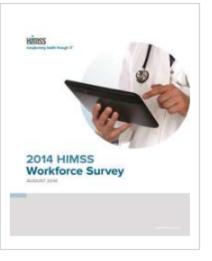
2014 HIMSS Workforce Survey

Author: HIMSS Analytics

Date: August, 2014

Summary: The second installment of the HIMSS Workforce Survey continues research in the information technology (IT) hiring practices of both the IT vendor industry and among healthcare provider organizations. This year's report covers a number of topics critical to organizations involved in the hiring of health IT professionals to include staffing experiences during the past year, as well as hiring plans for the coming year. It also tracks the type of candidates employers are seeking, how employees are being recruited and retained, and the challenges of managing a fully staffed health IT operation.

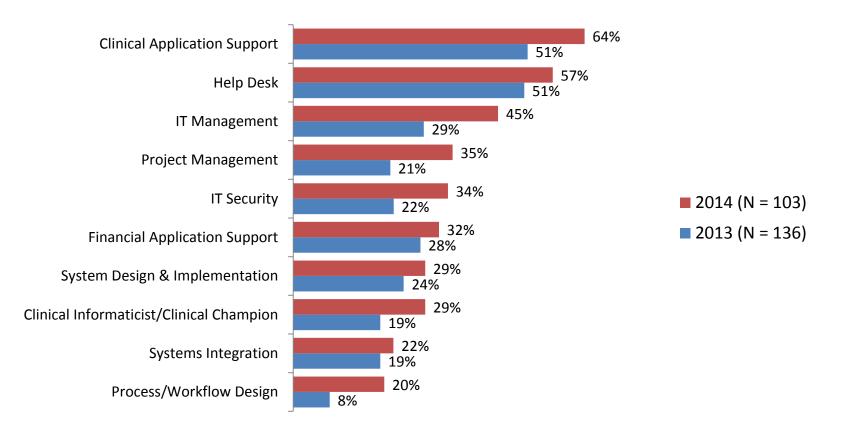
Cost: Complimentary







Top 10 Areas with IT Hires in the Past Year by Healthcare Provider Organizations



Source: http://www.himssanalytics.org/research/AssetDetail.aspx?pubid=82173&tid=128

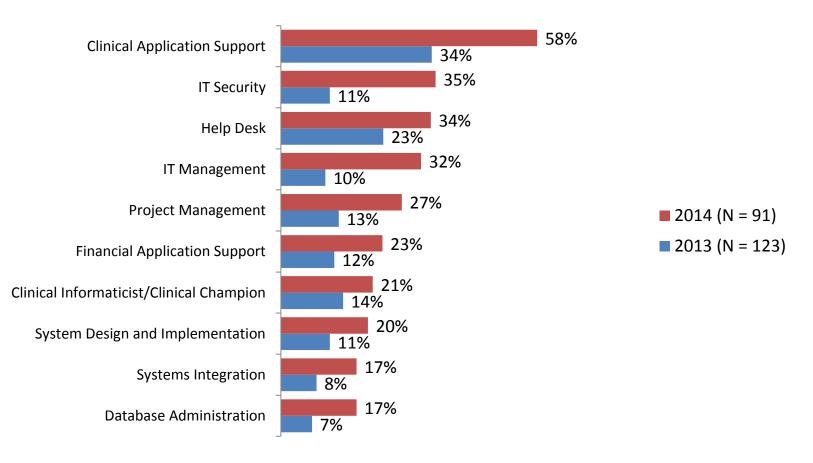




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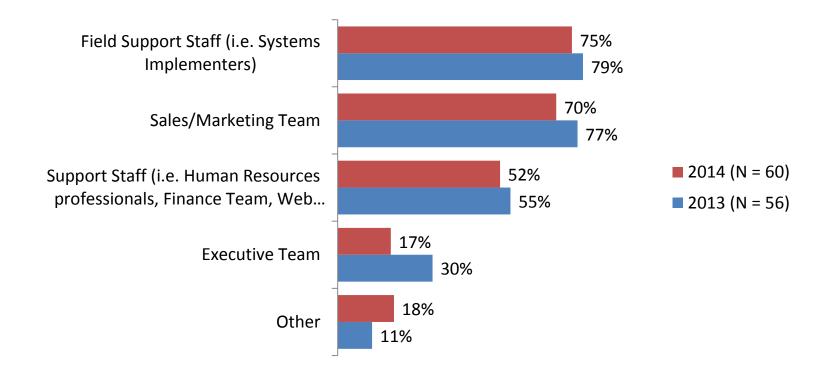
Top 10 Areas for Planned IT Hires in the Next Year by Healthcare Provider Organizations



Source: http://www.himssanalytics.org/research/AssetDetail.aspx?pubid=82173&tid=128



Areas with Hires Planned in the Next Year by Vendors and Consultants

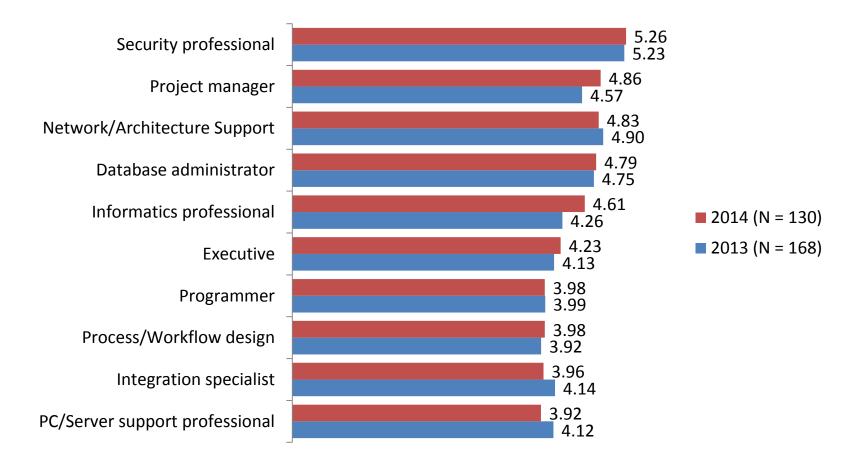


Source http://www.himssanalytics.org/research/AssetDetail.aspx?pubid=82173&tid=128





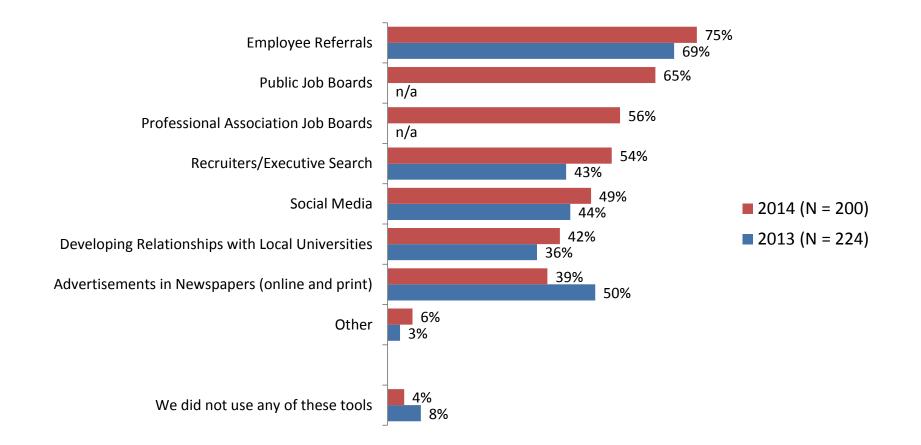
Top 10 IT Staff Areas for Certification by Healthcare Provider Organizations







Tools Used to Recruit Staff





Job boards separated into public and professional association job boards for 2014 survey



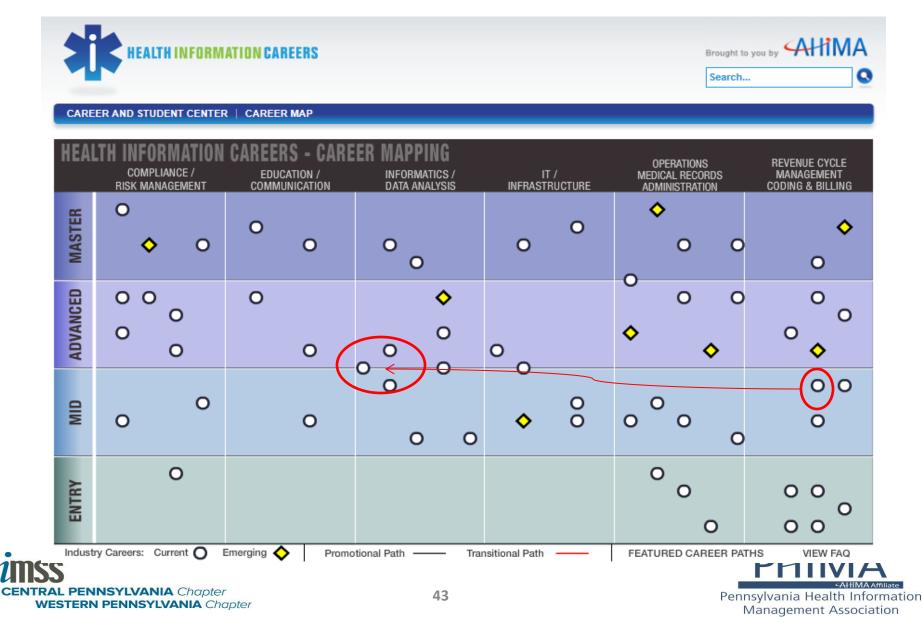
New AHIMA Workforce Study Underway "HIM Without Walls"

- Research study to determine the skills and competencies that will be needed by health informatics and information management professionals 10 to 20 years from now.
- New professional competencies are laying the foundation:
 - Data Content, Structure and Standards (Information Governance)
 - Information Protection: Access, Disclosure, Archival, Privacy and Security
 - Informatics, Analytics and Data Use
 - Revenue Management
 - Compliance
 - Leadership
- Traditional HIM departments are changing
 - Merging
 - Separating
 - Disappearing
- HIM professionals are practicing everywhere





Migration of Job Roles and Across Job Families



New Frontier: Information Governance

- We live in an information age
- Many industries have recognized the need to control their information
 - Healthcare is dependent on trusted health information
 - Technological advances are enabling creation, capture, and retention of more data and information, from more sources.

Source: <u>http://www.ahima.org/infogov</u> <u>http://www.youtube.com/watch?feature=player_e</u> <u>mbedded&v=qyM5hueulwY</u>







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The Learning Economy: Knowledge and Learning Across Your Lifetime Assessing Your Current Space

- How does your skill set match to the professional competencies evolving in your profession/career path?
- Where do you need to commit the most energy to keep your knowledge, skills and abilities relevant?
- What's your market value?
- How are industry pressures and innovations changing your profession/job?
 - Technology
 - Regulatory pressures
 - Emerging models of care delivery and payment
 - Others

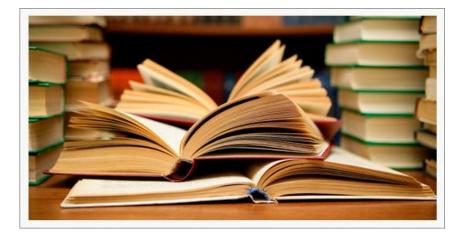




What Does Academia Say About CPE?

"Professional development is a part of [one's] professional responsibility and accountability and [is] essential to organisational and professional success".

Cleary, M., Horsfall, J., O'Hara-Aarons, M., Jackson, D., & Hunt, G. E. (2011). The views of mental health nurses on continuing professional development. *Journal of Clinical Nursing*, 20(23-24), 3561-3566.







What Does Academia Say About CPE?

With this constant change and uncertainty, health IT professionals are working in environments that are "paradoxically stable and unstable, predictable and unpredictable, known and unknown, certain and uncertain all at the same time".

Dzubinski, L., Hentz, B., Davis, K. L., & Nicolaides, A. (2012). Envisioning an adult learning graduate program for the early 21st century a developmental action inquiry study. *Adult Learning*, *23*(3), 103-110.

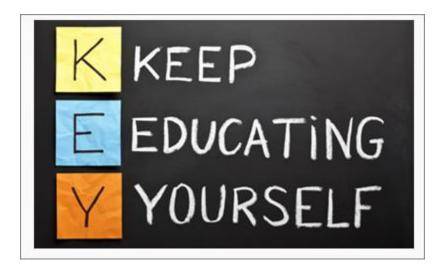






Why Participate in Continuing Professional Education (CPE)?

- Increased Demand for Health IT Services
- Regulatory Burdens like Health Reform, Meaningful Use, and ICD-10
- Complex Projects that Compete for Scarce Resources
- Maintaining One's Professional Competency
- Diversifying One's Skillset
- Others Reasons?







Typically, What Does CPE Look Like? Tools for Improving Your Space

- Attending Face-to-Face Conference Education
- Speaking in a Virtual Education Event
- Attending Job-Specific Training
- Seeking a Professional Certification

- Formal and Informal Education
- Continuing Education
 - Articles
 - MOOCs
 - Webinars
 - Roundtables
 - Others





Atypically, What Does CPE Look Like?

Book Reviews	- 6
Care Pathways	
Case Presentations	1
Case Studies	
Coaching	
Collaborative Research	
Commissioned Work	
Committee Membership or Chairmanship	
Computer-based Interactive Learning	
Conferences	
Consultancy	1
Courses	
Critical Incidents	
Critical Reviews	È
Debates	P
Diaries, logs, critical reflections	
Distance Learning	1
Doctoral Studies	
Education and Higher Education	3
Evening Classes	
Exhibitions or Displays	
Independent Studies	- 5
Information Leaflets	
In-house Education and Training	2
Inventions	

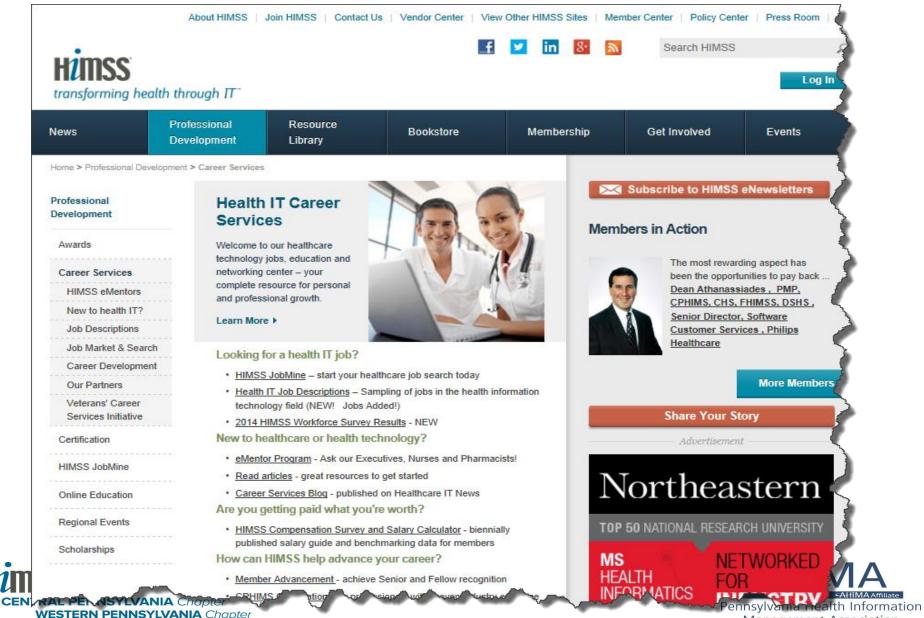


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Lecturer Practitioner	
Legal Work	
Literature Searches	7
Management and Management Training	₹.
Master Classes	
Master's Degree Studies	
Mentoring	\rightarrow
Networking	-5
Paper Presentations	1
Peer Learning and Development Groups	7
Performance Review	1
PhD	
Photographs	~
Pilot Studies	1
Plans	7
Poster Presentations	7
Postgraduate Study	- 1
Presentations: Case Studies, Conference	
Papers, Posters	
Private Practice	\rightarrow
Professional Activities: Committee Work,	7
Work Groups	- 💎
Projects	<
Project Group Membership	Ď
Protocols	\sum
Public Speaking	
Publication	Ó
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HIMSS Career Services



Management Association

AHIMA Career Resources

AHIMA	CERTIFICATION	EDUCATION	HIM TRENDS & TOPICS	CONFERENCES & EVENTS	CAREER & STUDENT CENTER	AHIMA & OUR WOR
	PREP TOOLS				Search	
LANDING THAT FIRST JOB	CAREER PREP WEBINARS		AREER PREP VORKBOOK		ALL STUDENT AND CAREER	CENTER
anding th	at First Job				QUICK LINKS	4
be a challenge in a	any profession. The di	fficulty often lies not	t in acquiring the nec	occorry ckille		
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Questions?







Thank you!



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