Development of Healthcare Informatics Competencies & Curricular Recommendations

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**STATEMENT OF PROBLEM**

- Currently no set standard of competencies for health/healthcare informatics education

**PROJECT OVERVIEW**

- Launched September 2010
- Phases:
  - Current State Assessment
  - Role Identification
  - Gap Analysis
  - Identification of Competencies
  - Resource Creation
  - HITComp
  - Foundational Curriculum

**CURRENT STATE**

- 718 experts/51 countries
- 37% of labor force insufficient digital skills
- Global shortage of skilled eHealth workers
- Scarcity of structured eHealth education & training
- Lack of identified competencies

**IDENTIFICATION OF COMPETENCIES**

- 250+ roles mapped (US and EU)
- Compile/aggregate >3000 HIT competencies
- 15+ health information organizations & sources
- Integrate Bloom's taxonomy and instructional design concepts
- Establish 1000+ standard HIT competencies
- Launch HITComp.org as repository

**INFORMATION OF WORK**

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**CONCLUSIONS**

- Basic digital skills & education required for all disciplines in the healthcare workforce.
- Alignment of healthcare and information and communications technology (ICT) domains.
- Development of Foundational Curriculum for the workforce in the EU and US

**HISTORY**

- TIGER Technology Informatics
- Guiding Education Reform
- Engaging & preparing global workforce in using technology & informatics to improve the delivery of patient care
- 2006: nursing community grassroots initiative
- 2012: Global expansion- International Committee
- 2014: transitioned to HIMSS
- 2017: Scholar’s Workgroup
  - ‘A trusted resource for health informatics educators.’
- 2019: TIGER International Task Force; 28 countries worldwide

**PROJECT SPONSORS**

- HIMSS International Competency Synthesis Project
- The EU*US eHealth Project

**GAP ANALYSIS**

- GAP 1: eHealth knowledge and skills of healthcare professionals
- GAP 3: Knowledge & skills of teachers and trainers
- GAP 4: Availability of courses & programs at various levels and for various professions
- GAP 5: Quality and quantity of eHealth training material

**CURRICULAR RECOMMENDATIONS**

- Development of a Foundational Curriculum
- Mapped to:
  - Competency
  - Professional Role
  - Level
  - Competencies
  - Type of Organization
- Organized around topical areas
- SMART’ Learning objectives linked to HITComp competencies
- Graphical representation of practical concepts, processes and cycles
- Variety of learning techniques
- Actively engage student in interactive real-life application of concepts
- Research, investigation and discovery activities
- Review exercises & activities at end unit

**REFERENCE**