

Awardee of The Office of the National Coordinator for Health Information Technology

Component 10 – Fundamentals of Workflow Process Analysis and Redesign

Unit 4-1 – Acquiring Clinical Process Knowledge

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Before you attempt to set things right, make sure you see things right.

- Blaine Lee

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Goal of Knowledge Acquisition for Health Care Process Analysis and Redesign

- 1. Elicit and document workflow information about a clinical practice
- 2. So that technology can be leveraged and patient care can ultimately be improved

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Unit Objectives

- Identify how the strategic goals and stakeholders for a given health care facility can influence workflow processes in that facility Create an agenda for an opening meeting to discuss workflow processes in a health care facility
- Compare and contrast different types of knowledge and their impact on organizations
- Analyze a health care scenario according to CMMI levels Identify the workflow processes that are likely to be used by a
- healthcare facility leavning processes that are linely to be used by a healthcare facility ldentify the workflow processes that are essential to document and analyze in order to determine how best to streamline the operations in a given health care facility.
- Identify key individuals with whom the analyst should meet or observe in order to gain an understanding of the nature and complexity of their work

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Unit Objectives cont.

- Given a process observation scenario, formulate the questions that would facilitate a productive discussion of the workflow of information, activities and roles within that facility
- Suggest ways to successfully respond to common challenges encountered in knowledge acquisition
- Given a practice scenario, choose an appropriate knowledge acquisition method
- Given a process analysis scenario including list of observations, create agenda for visit closing meeting and an initial meeting report
- Given a set of diagrams and observations from an information gathering meeting draft a summary report

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Topics for Unit 4-1

- Knowledge acquisition concepts
- Acquiring knowledge about the practice
- Acquiring process Knowledge
 - Identifying Practice Processes Information gathering methods
 - - Interviews
 Observation
 - Studying existing documents
 SoPs, process diagrams
 Group processes
 Documenting the information
 - Process diagrams
 Units 4-2 and 4-3
 Visit Report
- · Initiating a relationship with a practice
- Overcoming Barriers

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Why Do We Need to Acquire Knowledge?

- Clinicians and information technology professionals generally have different knowledge
 - Clinicians → Providing care
 - IT professionals \rightarrow How computers work
- We need to make computers "work" effectively in clinical settings

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Why is it Called Knowledge Acquisition

- · Gathering and capturing knowledge
- · Used in many other disciplines:
 - Management science
 - Computer science
 - Artificial intelligence
 - Cognitive psychology

Adapted from Gaines' research report Organizational Know

organizations

• There is no one general KA method

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Knowledge Acquisition Activities

Recruiting people Employees Process participating in communities of with expertise improvement through experience in use practice Gathering advice Gathering advice Developing new Process from professional literature improvement through process from consultants. products and customers, or processes suppliers analysis Forming joint Licensing patents Contracting with Process ventures with and processes improvement organizations through purchase Acquiring other organizations of technology

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Aspects of Knowledge

- Internal External¹
- Coded Tacit1
- Active Passive1, 2
- Transmitted Experiential1
- Declarative Procedural3

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Framework for Understanding Knowledge and It's Impact on Organizations



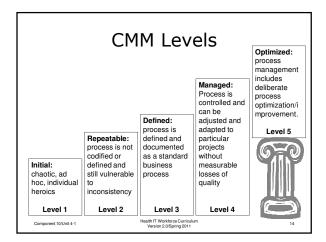
adapted from Gaines' research report Organizational Knowledge Acquisition

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spects of Knowledge	

Framework for Understanding Knowledge and It's Impact on Organizations reflective → coded passive experience information knowledge experiential learning procedural know how active skill knowledge technology transmittable sticky knowledge knowledge adapted from Gaines' research report Organizational Knowledge Acquisition Component 10/Unit 4-1



References

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 - http://pages.cpsc.ucalgary.ca/~gaines/reports/KM/OKA/index.html
- Passive Knowledge Versus Active Knowledge, March 4, 2010. Accessed on August 2, 2010, available from http://www.beyonduni.com/2010/03/passiveknowledge-versus-active-knowledge/
- 3. Milton, N.R., Knowledge Acquisition in Practice: A step by step guide. Springer, London. 2007

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