Installation and Maintenance of Health IT Systems

Unit 8-3

System Selection – Functional and Technical Requirements

Component8/Unit3

Health IT Workforce Curriculum Version 1.0 Fall 2010

12 Steps to Evaluating EHR Systems

- 1. Identify the decision makers
- 2. Clarify your goals
- 3. Determine functional requirements & write a request for proposal (RFP)
- 4. Determine RFP recipients
- 5. Review RFP responses
- 6. Attend vendor demonstrations

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12 Steps to Evaluating EHR Systems (cont'd)

- 7. Check references
- 8. Rank vendors
- 9. Conduct site visits
- 10.Select finalist
- 11. Solidify organizational "buy-in"
- 12. Negotiate the contract

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#1: Identify Your Decision Makers	
1 lakers	
 Many are resistant to change. Create a committee to assist in the selection 	
process.	
 Make selection process a physician-led effort. 	-
 Invite "movers and shakers" onboard in 	
the decision-making process.	
Your committee should be diverse.	
Component & Unit 3 Health IT Worldores Curriculum 4 Version 1.0 Fall 2010	
#2. Clarify Vary Cools	
#2: Clarify Your Goals	
What are compared the traction of	
What are your current limitations?	
Think about what the technology should	
achieve in the practice/institution.	
 Be sure your EHR selection aligns with the overall business strategy. 	
overall business strategy.	
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Color 10 at 2010	
#3: Determine Functional	
Requirements	
3-step process to identify functional & non-	
functional requirements:	
1.Understand existing standards	
2.Understand the marketplace	
3.Apply "use cases"	
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"Nonfunctional" Requirements (cont'd) Scalability - the ability to increase the number of users or applications associated with the product System requirements - operating systems, specific hardware or platform requirements, and any special environmental requirements Legal and regulatory requirements – telecommunication requirements, HIPAA compliance, etc Security - ability to provide confidentiality, data integrity, and data availability (HIPAA) Component 8/Unit 3 Health IT Workforce Curriculum Version 1.0 Fall 2010 **HL7 Standard for Functional** Requirements The Health Level Seven (HL7) functional model: · can prove very useful to organizations as they migrate to EHRs. · does not distinguish functions applicable for specific types of care delivery organizations. Component 8/Unit 3 Health IT Workforce Curriculum Version 1.0 Fall 2010 Steps for using HL7 as a baseline for your EHR requirements 1. Learn the language - "Shall" -- indicates a mandatory requirement for an EHR system to achieve conformance with the standard - "Should" -- indicates an optional recommended action for an EHR system - "May" -- indicates an optional or permissible action for an EHR system Component 8/Unit 3 Health IT Workforce Curriculum Version 1.0 Fall 2010

Steps for using HL7 as a baseline for your EHR requirements (cont'd) 2. Learn to read the model - Hierarchical list - Three sections: direct care, supportive, & information infrastructure 3. Review and select relevant sections Component 8/Unit 3 Health IT Workforce Curriculum Version 1.0 Fall 2010 **Use Cases** · Documented scenarios that explain how the system should interact with the end user or another system element to achieve a specific goal or function · Usually written in simplistic terms • Focus on correspondence between workflow and system processes Component8/Unit3 Health IT Workforce Curriculum Version 1.0 Fall 2010 Use Cases - An Example **PRE-EHR** Joe pulls out his prescription pad and pen. Joe consults with a pocket drug reference to check the usual dosing.

new medication.

quantity, refills).

Joe hands the handwritten prescription paper to Jane for her to bring to

Joe glances at Jane's allergy list to make sure she is not allergic to the

Joe handwrites the drug name and "sig" (e.g. dose, route, frequency,

Use Cases - An Example **POST-EHR** Joe activates the e-prescribing module within the EHR. Joe searches for and selects the drug he wants to prescribe, and he sees the usual doses, frequencies, etc, presented as options on-screen The e-prescribing system checks behind the scenes to see whether Jane is allergic to the selected medication or whether it has any significant interactions with her other current prescriptions. Joe fills in the required data to complete the prescription. If it is a commonly prescribed medication, he quickly selects a complete prescription (i.e. drug, dose, route, quantity, refills, etc) from a list of common options for that drug. Joe asks Jane from which pharmacy she would prefer to pick up the medication, selects that pharmacy in the system, transmits the e-prescription, and tells Jane it should be available for pickup shortly. Health IT Workforce Curriculu Version 1.0 Fall 2010 Write a Request for Proposal (RFP) · Items typically covered in a RFP: - Cover letter - Introduction and selection process - Background information, including organization size and specialty, along with current systems and hardware in place - Desired EHR functionality - Vendor information Component 8/Unit 3 Health IT Workforce Curriculum Version 1.0 Fall 2010 Write a Request for Proposal (RFP) · Items typically covered in a RFP (cont'd): - Product description - Hardware and network components needed - Customer maintenance, support, and warranties - Training available - System implementation plan - Proposed costs Sample contract Component8/Unit3 Health IT Workforce Curriculum Version 1.0 Fall 2010

#4: Who Gets an RFP?	
 Ask 4 questions: 1. Does the software have a history of interfacing with your practice management system? 2. Is the EHR typically marketed to practices of your size? 3. Does the EHR have favorable published ratings? 4. Does the EHR system meet your functionality needs? 	
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#5-6: Review RFP Responses & Attend Vendor Demonstrations • Committee review of responses to RFP to choose best candidates • Attend vendor demonstrations. - Present a couple patient visit scenarios to documentbeing sure to be consistent from one vendor to another. - Use standardized questions. - Prepare a ratings form.	
#7: Check References	
Check at least three references for every vendor. Ask standardized questions. Categories to rank: Background Provider usage Training and support Implementation & hardware Satisfaction	
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#8-10: Rank Vendors, Conduct	
Site Visits, and Choose a	
Finalist	
Use a simple ranking tool.	
Characteristics to rank:	
Functionality	
- Total cost	
– Vendor characteristics	
 Set up site visits with the top 2-3 contenders. 	
 Select a finalist and a runner up. 	
Coloot a finance and a farmor ap.	
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#11-12: Solidify Organizational	
Commitment &	
Negotiate the Contract	
Selling the organization on the EHR	
system	
Discuss the committee's assessment attacks	
 Discuss the committee's recommendations with stakeholders. 	
with stakeholders. – Be prepared to "sell" your organization on the	
with stakeholders. – Be prepared to "sell" your organization on the EHR concept and this particular vendor.	