Installation and Maintenance of Health IT Systems Unit 8a

Troubleshooting; Maintenance and Upgrades; and Interaction with Vendors, Developers, and Users

Component 8/Unit 8a

Health IT Workforce Curriculum Version 1.0 Fall 2010

What We'll Cover...

- · Identifying and implementing an effective troubleshooting procedure for reporting, evaluating, fixing, and following up on errors, problems, and system limitations
 - Creating a helpdesk
 - Triage and prioritization
 - The "tiered" support strategy

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What We'll Cover...

- · The importance of developing a process for communicating requirements and supplying updates between vendors, developers, and users
- The importance of creating a baseline for measuring system performance
 - What is a baseline?
 - What to measure?

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Creating Effective Troubleshooting and Maintenance Strategies • EHR systems in larger environments require dedicated staff to perform maintenance and troubleshooting. · Smaller environments need a "go-to" person assigned both to administer the system and to interface directly with IT consultants and the vendor. Component 8/Unit 8a Health IT Workforce Curriculum Version 1.0 Fall 2010 Creating Effective Troubleshooting and Maintenance Strategies • Larger institutions will find it more costeffective to provide on-site staffing for most maintenance and troubleshooting tasks associated with the EHR. Creating a dedicated production support team is recommended for larger healthcare environments to focus on customer support issues. Component 8/Unit 8 Health IT Workforce Curriculum Version 1.0 Fall 2010 Creating Effective Troubleshooting and Maintenance Strategies • The Production Support Team should focus on: - Being highly available and usable. - Providing rapid response to service issues. - Handling customer problems. - Managing user access requests to the EHR. - Reviewing daily interface error logs. - Doing other day-to-day duties as needed.

Creating Effective Troubleshooting and Maintenance Strategies

- The team should:
 - Be customer-focused.
 - Consist of staff with a high degree of application and business process knowledge.
 - Be staffed with specialists capable of providing helpdesk, OS and application-level, hardware, and network support.

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Creating Effective Troubleshooting and Maintenance Strategies • The helpdesk:

- - Becomes the first point of contact for most troubleshooting incidents.
 - Assists with answering user inquiries and troubleshooting more common issues.
 - Is responsible for "triaging" issues beyond their resolution scope to the appropriate group.
 - Is responsible for assigning priority, e.g. Routine, Important, Urgent, Critical.

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EHR Troubleshooting Workflow









Applications

Workstation Support





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Creating Effective Troubleshooting and Maintenance Strategies • Prioritizing troubleshooting requests: - Routine (Low) · An intermittent problem that needs to be addressed but is having little to no impact on workflow or patient health. - Important (Medium) · A device is nonfunctional but not impacting patient care. Component 8/Unit 8a Health IT Workforce Curriculum Version 1.0 Fall 2010 Creating Effective Troubleshooting and Maintenance Strategies • Prioritizing troubleshooting requests: - Urgent (High) · Issues that are severely impacting an individual's or department's workflow. - Critical · Issues where a critical device is affected with no other alternative for the user and the issue is directly affecting patient care. Component 8/Unit 8a Health IT Workforce Curriculum Version 1.0 Fall 2010 Creating Effective Troubleshooting and Maintenance Strategies The tiered approach: - First Tier · Super users · Helpdesk - Second Tier · Network and workstation specialists · Technical analysts - Third Tier · Application support specialists · Support consultants Component 8/Unit 8a Health IT Workforce Curriculum Version 1.0 Fall 2010

Creating Effective Troubleshooting and Maintenance Strategies "Super users": Are usually members of clinical teams well trained in EHR usage and workflow strategies. - Are located at practice sites or departments to provide front-line user support for commonly asked questions. - Promote proper security and confidentiality policies. - Need excellent teaching and communication skills. - Act as liaison between EHR support team and clinic. Component 8/Unit 8 Health IT Workforce Curriculum Version 1.0 Fall 2010 Creating Effective Troubleshooting and Maintenance Strategies · Helpdesk analysts: - Provide phone and email support. - Are proficient at workstation and application troubleshooting. - Provide documentation of issues along with their resolution for further analysis. - Need excellent customer relation skills. Component 8/Unit 8a Health IT Workforce Curriculum Version 1.0 Fall 2010 Creating Effective Troubleshooting and Maintenance Strategies • Network Specialists and Workstation Analysts: - Are dispersed throughout the system to provide level two support. - Are capable of troubleshooting intermediate to advanced network and application issues. - Interface with various team members to expedite requests.

Creating Effective Troubleshooting and Maintenance Strategies • Application Support Analysts: - Are experts in EHR applications. - Troubleshoot difficult issues. - Research specific problems with vendor. Production Support Consultants: - Work effectively with clinicians and stakeholders. - Recommend and implement EHR upgrades. Component 8/Unit 8a Health IT Workforce Curriculum Version 1.0 Fall 2010 Creating Effective Troubleshooting and Maintenance Strategies • Communication is key... - Having separate teams means a vital need for written documentation. - Lines of communication must exist connecting all facets of the support infrastructure. - Routine training can be a tool for communication enhancements, known issues, and soliciting feedback. - Communication and good listening skills are essential for supporting users.

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