

Awardee of The Office of the National Coordinator for

Component 7: Working with HIT Systems

Unit 5: Fundamentals of Usability in HIT Systems - What Does It Matter?



Unit 5: Objectives

- Define usability and its relationship to HIT systems.
- Explain the impact of HIT usability on user satisfaction, adoption, and workarounds including error rates and unintended consequences.
- Provide alternatives to HIT usability bottlenecks.

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Usability Defined



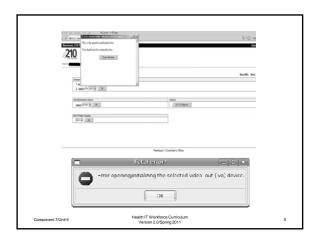
• "The extent to which a product can be used by specified users to achieve specified goals with effectiveness, efficiency and satisfaction in a specified context of use." ISO 9241-11

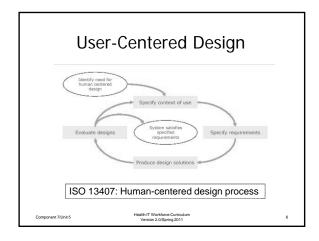
(Ergonomic Requirements for Office Work with Visual Display Terminals (VDTs) – Part 11 Guidance on Usability. ISO/IEC 9241)

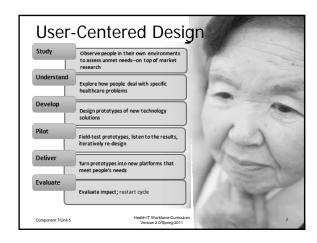
· Usability is the study of the ease with which people can employ a particular tool or other human-made object in order to achieve a particular goal.

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Jakob Nielsen • Usability – a quality attribute that assesses how easy user interfaces are to use • 5 6 Components: - Learnability - Efficiency - Memorability - Errors - Satisfaction - Utility http://www.usability.gov/basics/









Usability in HIT Understanding the user base Mobile workers Highly disruptive & stressful situations Cognitive overload Restriction of physical space – portability important Time compression Frequent turn-over (patients & providers) Workarounds are common

This completes Part 1 of Unit 5		
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