

and Confidentiality in HIT Systems



This material was developed by Johns Hopkins University, funded by the Department of Health and Human Services, Office of the National Coordinator for Health

Physical Safeguards

Facility Access Controls





Component 7/Unit 7

Health IT Workforce Curriculum Version 2.0/Spring 2011

Physical Safeguards

- Workstation Use
- Workstation Security
- Device and Media Controls (e.g., media disposal, access to backup and storage media)

Component 7/Unit 7

lealth IT Workforce Curriculum Version 2.0/Spring 2011

Physical Safeguards

- Device and Media Controls
 - media disposal
 - access to backup and storage media

.....

Health IT Workforce Curriculum Version 2.0/Spring 2011

Technical Safeguards

- Access Control
 - Unique user identification
 - Emergency access
 - Automatic logoff
 - Encryption/decryption



Image Source: MS Clip

Component 7/Unit 7

Health IT Workforce Curriculum Version 2.0/Spring 2011

Technical Safeguards

- Audit Controls
- Integrity



Image: MS Clipart

Component 7/Unit 7

Health IT Workforce Curriculum Version 2.0/Spring 2011

Technical Safeguards

- Person or Entity Authentication
 - Password/Passphrase/PIN
 - Smart card/token/key
 - Biometrics
 - Two factor authentication



Image: MS Clipar

Component 7/Unit

ealth IT Workforce Curriculu

Technical Safeguards

- Transmission Security
 - Integrity controls
 - Encryption



Image Source: MS Clip

Component 7/Unit 7

Health IT Workforce Curriculum Version 2.0/Spring 2011

Risk Analysis and Management

- Analysis
 - Gather data on potential threats and vulnerabilities
 - Assess current security measures
 - Determine likelihood, impact and level of risk $\,$
 - Identify needed security measures
- Management
 - Develop a plan for implementation
 - Evaluate and maintain security measures

Component 7/Unit 7

Health IT Workforce Curriculum Version 2.0/Spring 2011

| Component 7/Unit | 7 |
|------------------|---|
|------------------|---|

Meaningful Use

- Criteria for meaningful use of EHRs related to privacy, security and confidentiality meant to align with HIPAA
- · Emphasizes need to conduct a risk analysis
- Some specific requirements for EHR vendors



Health IT Workforce Curriculum Version 2.0/Spring 2011

Summary

- Privacy, security, and confidentiality in HIT
- Common threats encountered when using
- · Strategies to minimize threats to privacy, security, and confidentiality in HIT systems.



Health IT Workforce Curricul Version 2.0/Spring 2011

References

- American Health Information Management Association. Available from: http://www.ahima.org
 Ensuring Security of High-Risk Information in EHRs c2008. Available from:
- Ensuring Security of High-Risk Information in EHRs czuus. Available from:
 http://library.ahima.org/xpedio/groups/public/documents/ahima/bok1_03
 9956.hcsp?dDocName=bok1_039956

 HIPAA Security Series: Security 101 for Covered Entities .c2004
 Available from: http://www.hhs.gov/ocr/privacy/hipaa/administrative/securityrule/security
 101.pdf
- Nationwide Privacy and Security Framework for Electronic Exchange of Individually Identifiable Health Information. c2008. Available from: http://healthi.ths.gov/portal/server.pt/gateway/PTARGS_0_10731_8480 88_0_0_18/NationwidePS_Framework-5.pdf
 Scribd. Mobility Infrastructure Solution Design Guide. c2008. Available from: http://www.scribd.com/doc/24975115/Procurve-Wifi-Network-Design-Guide
- U.S. Department of Health and Human Services. Available from: http://www.hhs.gov

ealth IT Workforce Curriculum Version 2.0/Spring 2011

| Component | 7/Unit | 7 |
|-----------|--------|---|
|-----------|--------|---|