What’s New In Healthcare IT And How Do I Get Up To Speed?

John Dietle
EVP
Connecticut Computer Service, Inc.
**Agenda**

What’s New In Healthcare IT And How Do I Get Up To Speed?

1. Connecticut Computer Service, Inc. - CTComp
2. Do More with Less and Quicker
3. BYOD – Bring Your Own Device
4. Big Data & Analytics
5. EHR & Meaningful Use Stage 2
6. Roadmaps to get there
Complete Healthcare IT

Spend more time with your patients and trust your IT to us.
CTComp
Our business is understanding yours.

- Serving the IT needs of HealthCare for 30+ years.
  Infrastructure Specialists
  - On-Premise – Your Site
  - Cloud – Our Site
  - Hybrid – Your Site/ Our Site/ Other Site(s)
  - Training – Certification and Job Based Training
- Elite Vendor Partnerships
  - HP
  - Cisco
  - Brocade
  - VmWare
  - Microsoft
  - Zix
  - StorageCraft
  - Ergotron
  - Healthcare Security Solutions
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Do More with Less
And do it quicker

- CLOUD
  - Virtualization
  - Private
  - Public
  - Hybrid
- Mobile Apps
Do More with Less
And do it quicker

- Virtualize Servers if you haven’t
- Virtualize Storage – gives HA benefits too!
- Virtualize Desktops – Mobile Applications
  Reduces help desk calls
  Enables BYOD
  Enables easier/faster Backup/DR
  No need to carry around devices
  Enables Remote Access
What Skills Should You Have?

- A+ / Net +
- Windows MCSE
- VMware VCP5
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• BYOD is becoming mainstream.
  – Don’t get left behind!
• Does your facility have a BYOD policy?
  – clearly defined
  – ready to embrace all types of devices
  – as well as operating systems?

How do you make a Windows Application run on a I-thingy?
BYOD
Bring Your Own Device

• Secure/Guest Wireless
• Windows Applications on an IPAD?
  – IOS or Android or Mac OS X or Linux
  – Desktop Virtualization – Horizon View
Your Skills for BYOD

- Network +
- Cisco – CCNA Routing/Switching & Wireless
- VMWare View – VCP5-DT
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Analytic Queries at Point of Care
Outcome Analysis
Reducing Readmissions
Identify Disease Trends
Insurance Fraud
– Start with your EHR data and then go bigger
Big Data

- MCSE – Data Platform
- HP Vertica Certified ASE
  (bigdata typically vendor specific)
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Electronic Health Records & Stage 2 Meaningful Use

Stage 2 Meaningful Use: 17 Core Objectives

1. Use computerized provider order entry (CPOE) for medication, laboratory and radiology orders
2. Generate and transmit permissible prescriptions electronically (eRx)
3. Record demographic information
4. Record and chart changes in vital signs
5. Record smoking status for patients 13 years old or older
6. Use clinical decision support to improve performance on high-priority health conditions
7. Provide patients the ability to view online, download and transmit their health information
8. Provide clinical summaries for patients for each office visit
9. Protect electronic health information created or maintained by Certified EHR Technology
10. Incorporate clinical lab-test results into Certified EHR Technology
11. Generate lists of patients by specific conditions to use for quality improvement, reduction of disparities, research, or outreach
12. Use clinically relevant information to identify patients who should receive reminders for preventive/follow-up care
13. Use certified EHR technology to identify patient-specific education resources
14. Perform medication reconciliation
15. Provide summary of care record for each transition of care or referral
16. Submit electronic data to immunization registries
17. Use secure electronic messaging to communicate with patients on relevant health information

Meaningful Use: 6 Menu Objectives

1. Submit electronic syndromic surveillance data to public health agencies
2. Record electronic notes in patient records
3. Imaging results accessible through CEHRT
4. Record patient family health history
5. Report cancer cases to a public health central cancer registry
6. Report specific cases to a specialized registry

Electronic health record incentive payments to eligible docs and hospitals continue to climb into the new year. The "inexorable progress" of the federal EHR incentive program continues, with payments to providers moving ever closer to $20 billion.

As of the end of November, more than 436,000 hospitals and health professionals have registered for the Medicaid and Medicare EHR incentive program, and the federal government has made more than $17.7 billion in payments, the Centers for Medicare and Medicaid Services told the Health IT Policy Committee in an update.
Electronic Health Records & Stage 2 Meaningful Use

- Do you have the storage, network and compute you need?
- Is your server workload virtualized?
- Is your desktop workload virtualized?
- Do your users want mobile devices?
- Is your staff trained?
Stage 2 Meaningful Use
Have you conducted a risk assessment?

• Every physician must conduct a risk analysis in order to be eligible for meaningful use funding and they must comply with the program every year of the program.
Your Skill Set for EHR and Meaningful Use

- Comptia Healthcare IT
- Certified Professional in Health Information Technology (CPHIT)
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Certification Road Maps

- CompTIA A+ / Network +
- CompTIA Healthcare IT
- Certified Professional in Health Information Technology (CPHIT)
- Windows MCSE Server Infrastructure
- Windows MCSE Data Base
- Cisco – CCNA Routing/Switching & Wireless
- VMware View – VCP5-DT
CompTIA A+

http://certification.comptia.org

Optional Instructor Led Training ~$2995

CompTIA A+ 220-801 covers the fundamentals of computer technology, installation and configuration of PCs, laptops and related hardware, and basic networking.

CompTIA A+ 220-802 covers the skills required to install and configure PC operating systems, as well as configuring common features (e.g. network connectivity and email) for mobile operating systems Android and Apple iOS.

CompTIA A+ certifications issued in 2011 or later are valid for three years.
http://certification.comptia.org

Optional Instructor Led Training ~$1995.00
Exam: N10-005 -$269.

The exam covers network technologies, installation and configuration, media and topologies, management, and security. Candidate job roles include network administrator, network technician, network installer, help desk technician and IT cable installer.
The CompTIA Healthcare IT Technician certification covers the knowledge and skills required to implement, deploy, and support healthcare IT systems in U.S. clinical settings.

Technician certification exam covers:

- U.S. regulatory requirements
- Organizational behavior
- IT operations
- Medical business operations
- Security
Certified Professional in Health Information Technology (CPHIT)

http://www.healthitcertification.com

CPHIT Exam - $495  Optional Instructor Led Training ~$1995

The certification exam for the CPHIT contains 100 multiple choice items from all ten domains in the CPHIT common body of knowledge (C-I to C-IV and H-V to H-X). Candidates have 2 hours in which to complete the exam. Individuals who achieve a passing score of at least 70 percent on the CPHIT examination will receive the CPHIT credential.
## Windows MCSE Infrastructure

[https://www.microsoft.com/learning](https://www.microsoft.com/learning)

5 Exams - @$150. = $750 Optional Instructor Led Training ~$12,495

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<th>Required exam</th>
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<td>Installing and Configuring Windows Server 2012</td>
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<td>Administering Windows Server 2012</td>
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<td>Configuring Advanced Windows Server 2012 Services</td>
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<td>4</td>
<td>Designing and Implementing a Server Infrastructure</td>
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- After successfully completing steps 1-3, you'll earn a Microsoft Certified Solutions Associate (MCSA): Windows Server 2012 certification.

This MCSE certification requires you to show continued ability to perform in your chosen solution area by completing a recertification exam every three years.
# Windows MCSE Data

[Microsoft Certified Solutions Expert](https://www.microsoft.com/learning)

## 5 Exams - @$150. = $750 Optional Instructor Led Training ~$12,495

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<tr>
<td>2</td>
<td>Administering Microsoft SQL Server 2012 Databases</td>
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<tr>
<td>3</td>
<td>Implementing a Data Warehouse with Microsoft SQL Server 2012</td>
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<tr>
<td>4</td>
<td>Developing Microsoft SQL Server Databases</td>
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<td>5</td>
<td>Designing Solutions for SQL Server</td>
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This MCSE certification requires you to show continued ability to perform in your chosen solution area by completing a recertification exam every three years.
Cisco – CCNA Routing/Switching & Wireless

http://www.cisco.com/web/learning/certifications

1 or 2 Exams =$250  Optional Bootcamp Training~$2295.00

Cisco Certified Network Associate (CCNA) Routing and Switching is a certification program for entry-level network engineers that helps maximize your investment in foundational networking knowledge and increase the value of your employer's network. CCNA Routing and Switching is for Network Specialists, Network Administrators, and Network Support Engineers with 1-3 years of experience. The CCNA Routing and Switching validates the ability to install, configure, operate, and troubleshoot medium-size routed and switched networks.
Class attendance ~$4295 & Exam VCP5-DT $225
Soon to be called VMWare View exam

The VMware Certified Professional 5 – Desktop (VCP5-DT) is directed toward Virtualization Systems Engineers who seek to demonstrate their ability to install and configure the VMware View environment and enable View Client users. Candidates must be able to configure the vSphere environment, possess a deep understanding of VMware core components and their relation to storage and networking, and be proficient in datacenter design methodologies.
Thank You!

Visit us on-line ctcomp.com or Here today!

Booth#35

Complete Healthcare IT
Spend more time with your patients and trust your IT to us

Expect Even More

“We wanted to upgrade our computer systems, have a more secured server and a better backup system. We got that, as well as great customer service and prompt response from CTComp.”

– Scott Rosado, President, M.R. HomeCare, Inc.