



Advancing the Global IT Industry

2009 Data Quality Meeting

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CompTIA

www.comptia.org

Today's Agenda

- **CompTIA Overview**
- **CompTIA Certifications**
- **States' Career Clusters Initiative**
- **Perkins Re-Authorization & Its Impact**
- **Critical Issues around Data Sharing**
- **Some Thoughts on How to Resolve**

Who is CompTIA?

- **A not-for-profit global trade association representing the IT Industry**
- **Inclusive of all IT industry segments: Hardware; Software; Telecommunications; IT Services**
- **Businesses, Training Providers, and Not-for-profit organizations, Schools, Community Colleges and Universities**
 - CompTIA's Education to Careers (E2C) membership community
 - 20 statewide membership for all secondary and/or post-secondary educational institutions
- **Established in 1982, with corporate members in 102 countries**

What Does CompTIA Do?

- **Represents the interests of the IT Industry**
- **The largest developer of vendor-neutral, foundational IT certifications**
 - More than 1 million CompTIA certification holders worldwide
 - Examples: A+, Network +, Security+
- **Advances the interests of the IT industry through public policy initiatives by engaging government policy makers worldwide**
- **A leader of industry initiatives in IT Skill Standards and IT Workforce Development**
 - National Skills Standards Board (NSSB)
 - DoL's High Growth Initiative; DoD's 8570.1 Mandate

CompTIA's IT Certifications

- **High Stakes**
- **Vendor-neutral**
- **Foundational**
- **Industry-driven**
- **Subject Matter Experts representative of:**
 - Industry
 - Government
- **Based on Industry Skill Standards**
- **Prepare secondary & postsecondary students for employment in high-demand IT occupations**

States' Career Clusters Initiative

- **IT Career Cluster Leader**
- **Four IT Pathways:**
 - Information Support & Services
 - Network Systems
 - Web & Digital Communications
 - Programming & Software Development
- **Programs of Study**
- **Mapping IT Industry Certifications**
 - CompTIA
 - Cisco
 - CIW
 - Microsoft
 - Certiport
 - CompTIA
 - Adobe
 - WOW

Career Pathway – Information Support & Services

Secondary/Post-Secondary Education

High School

Associate/Bachelors

Masters/ PHD

IT Professional Certifications

- Vendor Specific**
 - IT Essentials Curriculum
 - MOS
- Vendor Neutral**
 - A+
 - Network+
 - Linux+
 - CIW Server Administrator
 - I-C3

- Vendor Specific**
 - IT Essentials Curriculum
 - MOS
- Vendor Neutral**
 - A+
 - Network+
 - Security+
 - Project+
 - PDI+
 - Server+
 - CIW Server Administrator
 - I-C3

- Vendor Specific**
- Vendor Neutral**
 - Security+
 - Project+
 - Convergence+

Job Titles & Annual Wages

- Information Technology Assistant
- PC Technician

- PC Technician
- Help Desk Technician
- Depot Technician

- Enterprise Technician
- Field Technician

~\$40K - \$60K

~\$60K - \$80K



Source: Janco Associates Inc. 2008 IT Compensation Study, Dice Tech Salary Survey

Career Pathway - Web + Digital Communications

Secondary/Post-Secondary Education

High School

Associate/Bachelors

Masters/ PHD

IT Professional Certifications

- Vendor Specific**
- MOS
 - MCTS - .Net Framework - Web Applications
 - Dreamweaver Associate
- Vendor Neutral**
- A+ CIW Associate
 - CIW Foundational
 - I-C3

- Vendor Specific**
- MOS
 - MCPD - Web Developer
 - Dreamweaver Associate
- Vendor Neutral**
- I-C3
 - Master CIW Designer

- Vendor Specific**
- MCA - Certified Architect
- Vendor Neutral**
- Master CIW Web Site Manager

Job Titles & Annual Wages

- Information Technology Assistant
- Web Production/Design Assistant

- Assistant Web Designer/Web Designer
- Game Simulation Designer

- Senior Web Designer
- Game Programmer

- Web Architect
- Game Software Developer

~\$40K - \$60K

~\$60K - \$80K

\$80K - \$120K



Career Pathway - Network Systems

Secondary/Post-Secondary Education

High School

Associate/
Bachelors

Masters/ PHD

IT Professional Certifications

Vendor Specific

- CCENT/CCNA/
- NCDS/NCSS/
NCAS/NCFS

Vendor Neutral

- A+
- Network+
- CIW Associate
- I-C3

Vendor Specific

- CCENT/CCNA/
CCNP
- NCSE/NCDE

Vendor Neutral

- A+
- Network+
- Security+
- Project+
- CIW Server Administrator
- I-C3

Vendor Specific

- CCENT/CCNA/
CCNP
- NCNA

Vendor Neutral

- Security+
- Project+
- Master CIW Administrator

Job Titles & Annual Wages

- Information Technology Assistant
- Computer Support Assistant

- Network Support Technician
- PC Support Specialist
- Telecommunication Network Technician

- Network Engineer
- Network Administrator
- Network Operations Analyst

- Network Architect
- Network Specialist

~\$40K - \$60K

~\$60K - \$80K

\$80K - \$120K

Increasing Job Responsibilities and Wages

Career Pathway – Programming & Software Development

Secondary/Post-Secondary Education

High School

Associate/
Bachelors

Masters/ PHD

IT Professional Certifications

Vendor Specific
MCTS- .Net Framework
• MOS

Vendor Neutral
• A+
• Linux+
• CIW Server Associate
• I-C3

Vendor Specific
MCPR - Windows Developer
• MOS

Vendor Neutral
• A+
• Linux+
• CIW Application Developer
• I-C3

Vendor Specific
• MCA

Vendor Neutral
• Master CIW Enterprise Developer

Job Titles & Annual Wages

- Information Technology Assistant
- Computer Programmer Assistant

- Junior Programmer
- System Tester

- Applications Engineer
- Operating Systems Programmer/Analyst
- Systems Test Engineer

- Project Manager
- Business Analyst
- Applications Architect

~\$40K - \$60K

~\$60K - \$80K

\$80K - \$120K

Increasing Job Responsibilities and Wages

Perkins 2006 Re-Authorization & Its Implications

- **New focus on:**
 - Accountability
 - Industry Certifications
 - Preparation for employment in high demand occupations
 - Validation of demand-driven skill sets
 - Embedding Industry Certifications into Programs of Study
- **Creates need for data sharing**
 - State Departments of Ed
 - Industry Certification Providers

Data Sharing: Critical Issues & Challenges

- **Legal issues—sharing students' performance data without their express permission**
- **Authorization issues—high school students who are minors require parents' authorization/permission**
- **States' laws vary re. age & “adult” status**
- **Level of states' reporting requirements—aggregate or individual student level**
- **Capturing student data for accurate & unique identification**

Potentials Ways to Move Forward

- **Adopt a form of DoD's 8570 Data Sharing Model**
- **State level “indemnification”**
- **Capturing of “comp ID” and name at time of exam**
- **Spreadsheet submitted to CompTIA for linkage to performance data**
- **States handle additional demographic information requirements**

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