

**Building Linkages in IT Occupations Framework: For Entry Level, Technical, and Professional Careers Related to the Design, Development, Support and Management of Hardware, Software, Multimedia, and Systems Integration Services.**

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| Sample of Career Specialties / Occupations | <p>Network Design and Administration:<br/>Communications Analyst * Data Communications Analyst * Information Systems Administrator * Information Systems Operator * Information Technology Engineer<br/>Network Consulting Engineer<br/>Network Pre-Sales Engineer<br/>Network: Administrator * Analyst * Architect * Engineer * Manager * Operations Analyst * Security Analyst * Specialist * Technician * Transport Administrator<br/>PC Support Specialist * Systems: Administrator * Engineer * Support Lead<br/>Technical Support Specialist * User Support Specialist<br/>Telecommunications Network Technician</p> | <p>Database Development and Administration:<br/>Data: Administrator * Analyst * Architect * Management Associate * Modeler * Modeling Specialist<br/>Database: Administration Associate * Administrator * Analyst * Developer * Manager * Modeler * Security Expert * DSS (Decision Support Services) * Knowledge Architect<br/>Senior: Database Administrator * Systems Analyst<br/>Systems: Administrator * Analyst<br/>Tester<br/>Technical Writer:<br/>Desktop Publisher * Document Specialist * Documentation Specialist * Editor<br/>Electronic Publications Specialist * Publisher<br/>Instructional Designer, Online Publisher<br/>Technical Communicator * Editor * Publications Manager * Writer<br/>Technical Support:<br/>Analyst * Call Center Support Representative * Content Manager<br/>Customer: Liaison * Service Representative * Service Professional<br/>Help Desk Specialist * Technician<br/>Maintenance Technician * PC Support Specialist * PC Systems Coordinator * Product Support Engineer * Sales Support Technician *<br/>Technical: Account Manager * Support Engineer * Support Representative<br/>Testing Engineer<br/>Enterprise Systems Analysis and Integration:<br/>Application Integrator * Business Continuity Analyst * Cross-Enterprise Integrator<br/>Data: Systems Designer * Systems Manager * Warehouse Designer<br/>E-Business Specialist * Electronic Transactions Implementer<br/>Information Systems: Architect * Planner<br/>Systems: Analyst * Architect * Integrator</p> | <p>Digital Media:<br/>2D/3D Artist * Animator * Audio/Video Engineer * Designer * Media Specialist * Media/Instructional Designer<br/>Multimedia: Author * Authoring Specialist * Developer * Specialist<br/>Producer * Production Assistant * Programmer * Streaming Media Specialist * Virtual Reality Specialist<br/>Web: Designer * Producer * Specialist<br/>Web Development and Administration:<br/>Web: Administrator * Architect * Designer * Page Developer * Producer * Site Developer * Specialist<br/>Webmaster<br/>Web Developer<br/>Social Networking Specialist<br/>Blog Developer * Search Engine Marketing Specialist<br/>Search Engine Optimization Specialist</p> | <p>Programming / Software Engineering:<br/>Applications: Analyst * Engineer<br/>Business Analyst * Computer Engineer * Data Modeler<br/>Operating System: Designer/Engineer * Programmer Analyst<br/>Program Manager * Programmer * Programmer/Analyst * Project Lead<br/>Software Applications: Specialist * Architect * Design Engineer * Development Engineer * Engineer * QA Specialist * Tester<br/>Systems: Analyst * Administrator<br/>Test Engineer * Tester</p> |
| Pathways                                   | Network Systems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Information Support and Services                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Web and Digital Communications                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Programming and Software Development                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| CCTC / Career Ready Practices              | <p>The <b>Common Career Technical Core (CCTC)</b> includes a set of standards for each of the 16 Career Clusters™ and their corresponding Career Pathways that define what students should know and be able to do after completing instruction in a program of study. The CCTC also includes an overarching set of <b>Career Ready Practices</b> that apply to all programs of study. The Career Ready Practices include 12 statements that address the knowledge, skills and dispositions that are important to becoming career ready.</p>                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |