

Maine IT Staff Augmentation Services Contract Job Titles and Descriptions – Version 2

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Architect - Junior

The Junior Architect has the ability to design, develop, and implement application infrastructure to provide reliable and scalable applications and systems to meet the organization's objectives and requirements. The Junior Architect is familiar with a variety of the application technologies, environments, concepts, methodologies, practices, and procedures. The Junior Architect is also able to perform a variety of complicated tasks with minimal or no direct supervision. The Junior Architect is also experienced in defining systems and application architecture.

JAR1

Years of Relevant Experience: 3- 5 years software development, and testing.

Preferred Education: 4 year college degree in computer science or related field with advanced study preferred.

Role Description:

- Proven experience with hands-on technical development work.
- Ability to coordinate with technical leads, business users and project managers.
- Experience participating in development of standards and product recommendations.
- Experience designing and architecting systems as a member of a design team.
- Experience working through every phase of software development life cycle.
- Strong verbal communication.

Architect - Senior

The Senior Architect is responsible for designing, developing, and implementing application infrastructure to provide highly-complex, reliable, and scalable applications and systems to meet the organization's objectives and requirements. Senior Architects are familiar with a variety of the application technologies, environments, concepts, methodologies, practices, and procedures and rely on experience and judgment to plan and accomplish goals. Senior Architects are able to perform a variety of complicated tasks with minimal or no direct supervision. They have proven experience defining systems and application architecture and provide vision, problem anticipation, and problem solving ability to organization. They consult with the client to define needs or problems, conduct research, perform studies and surveys to obtain data, and analyze problems to advise on or recommend solutions, utilizing knowledge of theory, principles, or technology of specific discipline or field of specialization.

SAR1

Years of Relevant Experience: 5 years software development, testing, and project management

Preferred Education: 4 year college degree in computer science or related field with advanced study preferred.

Role Description:

- Manages, organizes, and administers systems analysis and preparation of applications and operating systems programming to process data and solve problems by use of computers.
- Establishes priorities and schedules, and oversees and reviews work of systems analysis personnel and programming personnel.
- Reviews feasibility studies and time and cost estimates of new or revised systems.
- Assists in the development of standards, procedures, and operating systems applications.
- A combination of directly-related technical training and hands-on experience.
- Works with stakeholders and management to ensure projects are completed on time and according to organization standards.
- Consults with personnel in other information systems groups to coordinate activities.
- Consults with management to clarify systems and programs intent, identify problems, suggest changes, and determine extent of application systems changes required.
- Participates in developing a project plan and schedule with key milestones, contingency plans, workflow charts or diagrams, considering factors, such as resource requirements, computer storage capacity and speed, extent of peripheral equipment, and intended use of output data.
- Manages conversion of workflow charts to language that can be processed by computer and entering of program codes and test data into computer.
- Analyzes test runs on computer and supervises correction of coded program and input data.

- Manages the revision of existing programs to increase operating efficiency or adapt to new requirements.
- Compiles documentation of program development and subsequent revisions.
- Trains subordinates in systems analysis, feasibility studies, programming, and program coding.
- Prescribes standards for terms and symbols used to simplify interpretation of programs.
- Collaborates with computer manufacturers and other users to develop new programming methods.
- Prepares records and reports.

Business Analyst

The Business Analyst is responsible for the set of tasks and techniques used to work as a liaison among stakeholders in order to understand the structure, policies, and operations of an organization, and to recommend solutions that enable the organization to achieve its goals.

BA1

Years of Relevant Experience: 2+ years

Preferred Education: 4 year college degree or equivalent

Role Description:

- Experience conducting Facilitated Workshops for requirements analysis.
- Experience creating workflows using formal notation such as the Business Process Modeling Notation (BPMN).
- Knowledge of formal requirements gathering methodologies.
- Experience developing Business Requirements - project initiation document, what the needed achievements will be, and the quality measures.
- Experience developing Functional requirements - describe what the system, process, or product/service must do in order to fulfill the business requirements.
- Experience developing User (stakeholder) requirements - are a very important part of the deliverables, the needs of the stakeholders will have to be correctly interpreted. This deliverable can also reflect how the product will be designed, developed, and define how test cases must be formulated.
- Experience developing Quality-of-service (non-functional) requirements - are requirements that do not perform a specific function for the business requirement but are needed to support the functionality. For example: performance, scalability, quality of service (QoS), security and usability.
- Experience developing Report Specifications - define the purpose of a report, its justification, attributes and columns, owners and runtime parameters.
- Experience developing Requirements Traceability Matrix - a cross matrix for recording the requirements through each stage of the requirements gathering process.
- Strong organization and writing skills. Experienced developing graphic representations of complex business processes.

BA2

Years of Relevant Experience: 4+ years

Preferred Education: 4 year college degree or equivalent

Role Description:

- Similar duties/skills to BA1. Additional work experience and knowledge.

BA3

Years of Relevant Experience: 7+ years

Preferred Education: 4 year college degree or equivalent and IIBA Certified Business Analyst Professional (CBAP) designation

Role Description:

- Similar duties/skills to BA2. Additional work experience, job knowledge and certification.

Client Technologies Specialist

The Specialist is knowledgeable on the usage and support of a collection of personal computer platforms (a range of laptops and desktops, both Windows and Mac) or technical architectures, and products that run on those platforms. The individual performs a full range of computer administration functions with minimal direction and/or technical support. The individual will install and configure system hardware,

software, printers and verify network connectivity. The individual shall perform advanced troubleshooting and vendor technical liaison functions. The individual shall design and implement trouble shooting and correction plans, develop and coordinate user training programs and documenting all processes and procedures. The Specialists are responsible for collaborating with Technical Architecture Specialist, Functional Architects, Programmers and vendors to coordinate and enhance the use of the platform and facilitate migration to new versions of the platform.

CTS1

Years of Relevant Experience: 1-3 years in desired environment

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

- Assist in coordination of testing changes, upgrades and new software products, ensuring systems will operate correctly in current and future environment.
- Make recommendations on functional and technical improvements to the environment.
- Participate in performance and volume analysis and design.
- Participate in performance improvement activities. Identify and apply potential improvements related to the environment for an application.
- Provide accurate and complete answers to general use and environment questions in a timely manner.
- Serve as the point of contact for technology support and services.
- Serve as the point of integration between the business functions of the department and the technology requirements of the department.
- Provide desktop computer support.
- Serve as a point of contact for communication and coordination of service outages.
- Attend and participate in bi-weekly team and problem review meetings.
- Manage the retirement and disposal of obsolete or broken computer equipment.
- Coordinate the procurement and installation of new computer hardware and software.
- Coordinate virus protection software programs within departments.
- Understand the installation of software patches and upgrades.
- Provide input to training and/or documentation materials regarding latest technical and functional design changes.
- Ensure that all work is documented for future reference.
- Follow quality standards.
- Ensure effective and reliable backups are being performed.
- Proactively address customer needs.
- Communicate accurate and useful status updates.
- Evaluate and/or recommend purchases of computers, network hardware, peripheral equipment, and software;
- Investigate user problems, identify their source, determine possible solutions, test and implement solutions.
- Install, configure, and maintain personal computers and other related equipment, devices, and systems adds or upgrades and configures modems, disk drives, CD ROMs, printers, and related equipment.
- Assist in troubleshooting network issues, systems, and applications to identify and correct malfunctions and other operational difficulties.
- Develop and conduct various training and instruction for system users.
- Identify utilization patterns and their effect on operation/system availability and performance expectations.
- Ability to work in a team environment.
- Strong communication skills; both written and spoken.

CTS2

Years of Relevant Experience: 3-5 years in desired environment

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in CT-S1 plus the following:

- Actively participate in analyzing and evaluating emerging software and hardware technologies/standards.

- Develop appropriate functional and usability standards for the environments.
- Assist in planning and implementing shared software, such as operating systems, configuration management tools, application and development tools, testing tools, etc.
- Assist in planning and coordinating testing changes, upgrades and new and standard products, ensuring systems will operate correctly in current and future environment.
- Anticipate, identify, track and resolve issues and risks affecting own work. Develop contingency plans as necessary.
- Analyze the functional and/or technical impact of new product releases.
- Meet with department heads, managers, supervisors, vendors, and others, to solicit cooperation and resolve problems.
- Determine time estimates and schedule for own work and resolve issues in a timely manner.
- Identify and track issues, risks and action items.

Configuration Management Specialist

The Configuration Management Specialist is an expert in designing, establishing and operating the tooling required to support an Application Software development team or organization.

CMS1

Years of Relevant Experience: 3-5+ years

Preferred Education: 4 year college degree or equivalent

Role Description:

They must have a strong competency in the following areas:

- Defect, enhancement, issue, and problem-tracking tools. These tools are used in connection with the problem-tracking issues associated with a particular software product.
- Version management tools. These tools are involved in the management of multiple versions of a product.
- Release and build tools. These tools are used to manage the tasks of software release and build. The category includes installation tools which have become widely used for configuring the installation of software products.

In addition, they will likely maintain some language competency in programming related to creating scripts or automation in support of the software lifecycle.

Data Architect

Well versed in entity relationship modeling methodology. Knows how to implement third normal form, referential Integrity and re- the importance of and reference/lookup tables. An experienced OLTP Data Architect has designed >2 small OLTP systems (under 50 tables) and >2 medium to large OLTP system consisting of 50+ tables and has designed =>2 data marts and =>2 data warehouse systems.

DA1

Years of Relevant Experience: 5+ years

Preferred Education: 4 year college degree or equivalent

Role Description:

- Meet with User Groups to gather data requirements for a medium to large application.
- Translate User data requirements into a logical data model.
- Validate the logical data model with all User Groups.
- Translate the logical data model into a physical database design.
- Provide the DDL from the physical design to the DBA group who creates the actual schema.

Data Entry Operator

For data entry projects that require manual key entry and/or data capture through scanning.

DE1

Years of Relevant Experience: 0 to 2 years

Preferred Education: Associates Degree or equivalent

Role Description:

- Comprehensive PC skills

- Able to follow written and spoken instructions
- Minimum of 25 wpm
- Ability to accurately enter information into a computer, accessing information from a computer, and verifying information on a screen.
- Duties involve utilizing automated equipment, including electronic keyboard, display screen, and sorted memory to perform.
- Ability to operate and understand basic scanning and imaging equipment, including pan, skew, and image correction techniques.
- Ability to conduct basic data mining and data capture efforts
- The total number of keystrokes is limited to actual characters, numbers and special characters that are keyed. Spaces, function keys, nulls, and zeros are not counted as keystrokes.
- The contractor must complete all data forms within an agreed-upon amount of time from receipt or average a minimum of a set number of strokes each week data forms are in possession.
- Error rate cannot exceed 1/2%. Error rate is calculated on a character (not field or record) basis.
- Knowledge of imaging and visual display operating practices, procedures, and techniques.
- Knowledge of arithmetic and numbering systems.
- Ability to operate equipment with speed and accuracy to ensure information is captured.

DE2

Years of Relevant Experience: 2 to 4 years

Preferred Education: Associates Degree or equivalent

Role Description:

- Comprehensive PC skills
- Able to follow written and spoken instructions
- Minimum of 35 wpm
- Ability to accurately enter information into a computer, accessing information from a computer, and verifying information on a screen.
- Duties involve utilizing automated equipment, including electronic keyboard, display screen, and sorted memory to perform.
- Ability to operate and understand basic scanning and imaging equipment, including pan, skew, and image correction techniques.
- Ability to conduct basic data mining and data capture efforts.
- The total number of keystrokes is limited to actual characters, numbers and special characters that are keyed. Spaces, function keys, nulls, and zeros are not counted as keystrokes.
- The contractor must complete all data forms within an agreed-upon amount of time from receipt or average a minimum of a set number of strokes each week data forms are in possession.
- Error rate cannot exceed 1/2%. Error rate is calculated on a character (not field or record) basis.
- Knowledge of imaging and visual display operating practices, procedures, and techniques.
- Knowledge of arithmetic and numbering systems.
- Ability to operate equipment with speed and accuracy to ensure information is captured.

Database Administrator

The Database Administrator is responsible for data analysis and database management.

Database Administrators typically are involved in maintenance, enhancement, designing of data dictionaries, physical and logical database models, and performance tuning. Database Administrators have a range of skills and knowledge of the utilities and production tools used for data storage management to support the Application Team. Database Administrators have experience upgrading databases from version x to version y and application of database patches. Database Administrators are familiar with vendor support call and escalation procedures. Database Administrators have experience with system monitoring and alerting techniques.

DBA1

Years of Experience: 2 to 3 years

Education: 4 year college degree or equivalent technical study

Role Description:

- Skilled data dictionary analysis and design and data model analysis design.
- Maintains central data repository.

- Experience and knowledge in supporting application system development life cycle.
- Responsible for data dictionary backup and recovery.
- Responsible for definition of standards of data dictionaries.
- May program dictionary analysis and maintenance software.
- Perform performance tuning.
- Monitor database performance and space requirements.
- Schedule and monitor end of day data warehousing jobs.
- Assist in coordinating software releases.
- Communicate accurate and useful status updates.
- Manage and report time spent on all work activities.
- Follow quality standards.
- Ability to work in a team environment
- Complete assigned tasks.
- Strong communication skills; both written and spoken

DBA2

Years of Experience: 3 to 5 years

Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in DBA 1 plus the following:

- Business systems analysis and design experience.
- Logical data modeling techniques.
- Production environment Tools/Utilities.
- Knowledgeable in data analysis and database management techniques.
- Execution of all responsibilities with little direct supervision of Team Lead.
- Administration and scripting experience in relative platform.
- Supervise performance tuning.
- Author shell scripts to perform back up, restore, and monitoring tasks.
- Anticipate and resolve issues specific to the team.
- Determine time estimates and schedule for own work and resolve issues in a timely manner.
- Identify and track issues, risks and action items.

DBA3

Years of Experience: 5 to 7 years

Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in DBA2 plus the following:

- Highly skilled at database design, installations, data conversions and database upgrades.
- Responsible for database backup and recovery procedures, access security and database integrity, physical data storage design and data storage management.
- Participates in Database Management System selection and maintains database performance.
- Expertise in specific Database Management Systems.
- Knowledge of various Database Management System products.
- Provide status of work to Project Team Lead.
- Engage in ongoing process improvement.

DBA4

Years of Experience: 7 plus years

Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in DBA3 plus the following:

- Mentors and manages other team members.
- Experience working with large database implementations.
- Develops and maintains database standards and naming conventions.
- Keeps up-to-date on emerging database architectures, technologies, and methodologies, and attends training classes as necessary.

Functional Architect

The Functional Architect is the functional expert for an application, a defined set of applications or a portfolio of related applications. The Functional Architect is also responsible for bringing an understanding of the enterprise, business system and industry to the team(s) supporting or interfacing with the application. The primary responsibility of a Functional Architect is to provide expertise in the business process supported by the application, to prepare and review designs, to recommend improvements, and to provide guidance during the testing process. The Functional Architect helps the Programmers establish a clear understanding of the business functional requirements and either creates the functional designs to meet the requirements or reviews and approves the designs written by the Programmers. The Functional Architect must understand all aspects of their specific application(s), and the underlying business process. The more experienced Functional Architect plans, analyzes, and defines high-level software strategies and solutions. Contained in the experienced role is the task of coordinating with other Functional Architects to define technical requirements and long range plans for meeting customer requirements.

FA1

Years of Relevant Experience: Less than two years in particular application area

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

- Analyze, determine, and document functional requirements.
- Provide definition on how the applications will support business requirements.
- Conduct impact analyses of business requirements on the system.
- Work with Technical Architecture Specialist in defining software / hardware requirements.
- Gather and interpret user requirements into design specifications.
- Participate in design of application.
- Participate in design code and test reviews as appropriate.
- Provide inputs to test planning.
- Complete assigned tasks.
- Communicate accurate and useful status updates.
- Follow quality standards.
- Ability to work in a team environment
- Strong communication skills; both written and spoken

FA2

Years of Relevant Experience: 2 to 4 years in particular application area

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in FA 1 plus the following:

- Act as the application(s) functional expert; providing expertise in the business process supported by the application.
- Provide detailed definition on how the applications will support business requirements.
- Work with Technical Architecture Specialist in planning and delivering technical architecture.
- Provide expertise for defining functional architecture and infrastructure for applications.
- Plan and develop user interface strategy.
- Direct and participate in design of application.
- Interpret and understand user requirements/design specifications.
- Provide detailed definition on how the applications will support business requirements.
- Work with Technical Architecture Specialist in defining software / hardware requirements and in planning and delivering architecture.
- Provide expertise for defining architecture and infrastructure for applications.
- Review and understand team work plan
- Identify and track issues, risks and action items affecting own work and work of team.
- Anticipate and resolve issues specific to the team.
- Determine time estimates and schedule for own work and resolve issues in a timely manner.

FA3

Years of Relevant Experience: 4 to 5 years in particular application area

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in FA 2 plus the following:

- Provide functional expertise to planning organization as required.
- Review tasks prior to migration into production as appropriate. Provide assistance in scheduling design work for Lead Functional Architect.
- Coordinate the design and development of work estimates and act as the primary point of contact. Assist in managing and directing application team processes.
- Organize and prepare work effectively to facilitate proactive resolution of problems.
- Work with client and Lead Functional Architect to identify direction of software.
- Ensure business requirements are supported by the software.
- Identify and initiate continuous improvement opportunities.
- Define user interface strategies.
- Understand specific business needs and overall business strategy of the business customer.

FA4

Years of Relevant Experience: Five plus years in particular application area

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in FA 3 plus the following:

- Guide processes for Functional Architects and direct work planning and design activities.
- Provide standard, well-structured work planning which defines scope, resources, commitments, quality, risk, tasks, and acceptance criteria.
- Ensure that overall application designs remain within project scope.
- Work with customer business units to understand their business processes.
- Work with customer business units and client to identify direction of software. Ensure business requirements are supported by the software.
- Ensure goals for Functional Architects are being met and manage team commitments.
- Analyze, define, and document how the applications will support functional and business requirements. Coordinate these efforts with Functional Architects.
- Understand supporting/interfaces system applications.
- Approve the determined need for new software/hardware.
- Understand prioritization work based on business needs request/releases for work affecting an application.
- Manage the accomplishment of delivery metrics, Service Level Agreements and other contractual obligations within areas of responsibility.
- Sponsor coordination of the required skills, training, methodologies, and processes to ensure the success of team/project/program goals.
- Coordinate and conduct project review meetings with Group Lead Functional Architects and Team Leads.
- Communicate and resolve application interface issues with other Lead Functional Architects as needed.
- Monitor and measure maintenance and development process effectiveness.
- Communicate clearly the program/application goals, operational and organizational philosophies, and policies and procedures to the Functional Architects.
- Communicate to team members the relationships between their work and assignments and the organizational and/ or program objectives.

Graphic Designer

The Graphic Designer is responsible for all aspects of user interface design to include prototype development and coding of markup. The designer incorporates the business marketing goals, user interface standards (both internal and industry-established), and accessibility requirements to produce a user interface that accomplishes the functional requirements of the system. The designer works with the Functional Architect regularly to ensure that the design meets customer requirements. The designer also

works with Programmers to ensure that the user interface is then coded properly. The designer may play a role in testing, particularly in the area of accessibility.

GD1

Years of Relevant Experience: 3 plus years

Preferred Education: 4 year college degree or equivalent

Role Description:

- Participate in requirements analysis and/or thoroughly review requirements documentation to have a thorough understanding of the system requirements.
- Development of quasi-functional prototypes (such as static web pages with functional links to demonstrate navigations).
- Present prototypes to stake holders and design teams.
- Documentation of established user interface standards specific to the application.
- Coding of HTML markup (in the case of web applications). Uses webpage design tools such as Dreamweaver and other common applications.
- Participate in application testing to ensure that the system meetings user interface requirements.
- Perform accessibility tests using screen reader tools.
- Ability to work in a team environment.
- Complete assigned tasks.
- Strong communication skills; both written and spoken.

Help Desk Analyst

The Help Desk Analyst provides Helpdesk Level 2 Support by performing the skills listed below.

HDA1

Years of Relevant Experience: 1 to 3 years field experience

Preferred Education: 2 year associates degree or equivalent technical study.

Role Description:

- Provides technical assistance, support, and advice to end users for hardware, software, and systems.
- Provides hands-on technical assistance to business and technical users.
- Investigates and resolves computer software and hardware problems of users.
- Serves as a contact for level 1 support.
- Serves as a contact for users having problems using computer software, hardware, and operating systems, and escalates as necessary.
- Determines whether problem is caused by hardware, software, or system.
- Answers questions, applying knowledge of computer software, hardware, systems, and procedures.
- Talks with technical and non-technical co-workers to research problem and find solution.
- Asks user with problem to use telephone and participate in diagnostic procedures, using diagnostic software or by listening to and following instructions.
- Experienced with a variety of call-tracking software and systems.
- Reads trade magazines and engages in independent study to maintain current industry knowledge.
- Follow quality standards, and displays strong customer service skills.
- Ability to work in a team environment.
- Complete assigned tasks.
- Strong communication skills; both written and spoken.

HDA2

Years of Relevant Experience: 3 to 5 years field experience

Preferred Education: 4 year college degree in field of specialty or equivalent education and experience combined

Role Description:

All roles specified in HDA 1 plus the following:

- Calls software and hardware vendors to request service regarding defective products.
- Acts as a subject matter expert for one or more custom or COTS applications.
- Talks to programmers to explain software errors or to recommend changes to programs.
- May work as in-house consultant and research alternate approaches to existing software and hardware when standardized approaches cannot be applied.

- Tests software and hardware to evaluate ease of use and whether product will aid user in performing work.
- Write software and hardware evaluation and recommendations for management review.
- Write or revise user-training manuals and procedures.
- Develops training materials, such as exercises and visual displays.
- Train users on software and hardware on-site or in classroom, or recommend outside contractors to provide training.

HDA3

Years of Relevant Experience: 5 plus years field experience

Preferred Education: 4 year college degree in field of specialty

Role Description:

All roles specified in HDA 1 and 2 plus the following:

- Manage expectations at all levels: customers/end users, executive sponsors.
- Ensure quality standards are followed.
- Monitor the team's open backlog of support issues and re-assign issues as necessary to ensure they are closed per agreed upon service levels.
- Act as the escalation point for high priority support issues.
- Ability to make recommendations on policies on system use and services.

Help Desk Technician

This Helpdesk Technician works within the call center providing support to customers most commonly through inbound phone inquiries. Provides quality and efficient customer support via phone or remote assistance to assist in ensuring one-call issue resolution. Maintain productivity and quality standards, make recommendations to enhance the existing Call Center operations, act as liaison between the customer and other departments and systems. Conducts advanced troubleshooting of PC related issues, assisting with network related issues, installs, configures and upgrades operating system and application software. Provides support to the field technicians; developing and coordinating user training programs and documenting all processes and procedures.

HDT1

Years of Experience: 1 to 3 years field experience

Education: 2 year associates degree or equivalent technical study

Role Description:

- Read and comprehend technical service manuals and publications.
- Makes appropriate use of reference publications and diagnostic aids in resolving technical problems.
- Take active role in suggesting peripheral equipment.
- Detect and correct equipment errors.
- Prioritize and schedule own workload.
- Needs technical assistance on complex problems
- Provide accurate and complete answers to general use and administrative environment questions in a timely manner.
- Communicate accurate and useful status updates.
- Manage and report time spent on all work activities.
- Respond to requests for technical assistance in person, via phone, electronically.
- Provides desktop and laptop computer support.
- Updates computer virus software and operating systems. Assures automated updating procedures are in-place.
- Diagnose and resolve technical hardware and software issues.
- Research questions using available information resources.
- Advise user on appropriate action.
- Follow standard help desk procedures.
- Log all help desk interactions in work ticket tracking system.
- Administer help desk software.
- Redirect problems to appropriate resource.
- Identify and escalate situations requiring urgent attention.
- Track and route problems and requests and document resolutions.

- Stay current with system information, changes and updates.
- Follow quality standards.
- Participate in team projects that enhance the quality or efficiency of service
- Ability to work in a team environment.
- Complete assigned tasks.
- Strong communication skills; both written and spoken.

HDT2

Years of Experience: 3 to 5 years field experience

Education: 2 year college degree or equivalent technical study

Role Description:

All roles specified in HDS 1 plus the following:

- Knowledge of system relationships and telecommunications.
- Application of technical skill to a variety of equipment types.
- Anticipate and resolve issues specific to the team.
- Provide quality assurance support to Manager to ensure that minimum performance requirements are met for service requests and incident management, including verification that issues are documented appropriately in tickets.
- Perform ticket queue reviews to ensure all technicians are providing quality support as outlined by SOP and SLA guidelines.
- Keep all team members equally knowledgeable in troubleshooting specific incidents.
- Build knowledge base by managing the formulation of new documentation that describes technical fixes.
- Assist in the resolution of user and support issues to ensure timely distribution of knowledge and positive impact on user satisfaction.
- Take a leadership role in tracking and managing technical issues under help desk scope.
- Determine time estimates and schedule for own work and resolve issues in a timely manner.
- Identify and track issues, risks and action items.

HDT3

Years of Experience: 5 plus years field experience

Education: 2 year college degree or equivalent technical study

Role Description:

All roles specified in HDS 2 plus the following:

- Manage expectations at all levels: customers/end users, executive sponsors.
- Ensure quality standards are followed.
- Ability to make recommendations on policies on system use and services.

Product Specialist

The Product Specialist is the expert for a technical development or execution environment product or set of products. The primary responsibility of a Product Specialist is to ensure the availability and facilitate the productive use of a product for Application Teams or end users. The Product Specialist may own part of a product, all of one, or several products depending on the nature of the product(s) and their use. The Product Specialist requires significant to expert experience and skills in the product supported. The Product Specialist will usually also have significant experience in the operating environment(s) (e.g., HP/UX, NT, MVS, etc.) on which the product is implemented. The product specialist also requires significant knowledge of security and firewall areas. If the product is one that was internally developed, the supporting PS should also have most of the skills of a Programmer. The Product Specialist is responsible for collaborating with Technical Architecture Specialist, System Specialists, Programmers and vendors to ensure and enhance the use of the product and effect migration to new versions of a product.

PS1

Years of Relevant Experience: 1 to 2 years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

- Make sound recommendations on functional and technical improvements to the product.
- Analyze the functional and technical impact of product planning decisions.

- Develop appropriate functional and usability standards for products.
- Track and document expected volume and type of use of the product.
- Participate in product design reviews to verify that design meets quality standards and functional/technical requirements.
- Perform impact analyses on production fixes and enhancements to establish priorities.
- Provide basic product support and provide accurate and complete answers to detailed product questions in a timely manner.
- Provide effective on-site product support as needed.
- Accurately sets severity of identified defects.
- Provide input to training and / or documentation materials regarding latest technical and functional design changes.
- Document all work for future reference.
- Review the system test approach and conditions used as the basis for detailed test scenarios.
- Follow quality standards.
- Analytical and customer service skills.
- Communicate accurate and useful status updates.
- Ability to work in a team environment
- Complete assigned tasks.
- Strong communication skills; both written and spoken

PS2

Years of Relevant Experience: 2 to 5 years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in PS 1 plus the following:

- Actively contribute as an expert or actual designer.
- Coordinate product design reviews to verify that design meets quality standards and functional/technical requirements.
- Provide accurate estimates for design and programming efforts for system changes and enhancements.
- Design and provide input on product security and firewall issues.
- Coordinate enhancements to business and logical data models with data base administration to make the appropriate changes to the physical data model.
- Confirm that technical architecture will support all changes required by product enhancements.
- Effectively lead product tests and trials.
- Identify appropriate business examples to illustrate key concepts / features.
- Anticipate, identify, track and resolve issues and risks affecting own work and work of the Application Team. Develop contingency plans as necessary.
- Apply specific expertise to ensure that products meet defined customer objectives.
- Anticipate and resolve issues specific to the team.
- Determine time estimates and schedule for own work and resolve issues in a timely manner.
- Identify and track issues, risks and action items.

PS3

Years of Relevant Experience: 5 plus years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in PS 2 plus the following:

- Demonstrate expertise in teaching / conveying technical and / or functional courses / concepts.
- Develop appropriate work programs / budgets and use to effectively schedule tasks / assignments.
- Identify improvements to project standards to achieve high quality services / products.

Program Manager

The Program Manager directs, controls, administers, and regulates an enhancement or development program. The Program Manager is the individual ultimately responsible to the agency. The Program Manager's primary responsibility is to drive the entire effort from start to finish. The Program Manager must ensure that the program is completed on schedule, on budget, and that the final product meets the

business, technical, and established quality requirements. The difference between a PM1, PM2, and PM3 will depend on the size of the project, and the breadth and scope of the project.

PM1

Years of Relevant Experience: 2 to 5 years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

- Responsible for the development of estimates for the enhancement or development effort in planning, analysis, design, construction, testing, and implementation.
- Accountable for delivery of all work tasks identified in the program plan.
- Responsible for the capture and reporting of required program management metrics.
- Adjust and revise estimates when necessary.
- Ensure all changes to scope follow processes and are documented.
- Ensure new estimates are approved by the client and agreed upon.
- Adjust and revise estimates when necessary.
- Manage, and track the program progress against the program plan.
- Monitor project milestones and phases to ensure the project is on schedule. Take corrective actions if a project begins to slip its schedule.
- Prepares status reports on a periodic basis for program team, team leads, group leads, and program manager and appropriate stakeholders.
- Plan, organize, prioritize, and manage multiple work efforts across application teams.
- Develop the detailed program plan for the enhancement or development effort
- Accountable for the final program management evaluation review with stakeholders for approval upon program completion.
- Responsible to tailor and baseline all program templates.
- Accountable to schedule or monitor status reviews, peer reviews, program management inspections, and software quality assurance work product and process reviews with the appropriate designated resources.
- Notify team leads of project timelines, milestones, phases, work requests target dates, and approved executable work package.
- Communicate and work with users and client as necessary.
- Coordinate and present proposals to agencies as necessary.
- Analyze and distribute reports on program metrics associated with work items related to improvement measures.
- Ensure processes and activities are followed.

PM2

Years of Relevant Experience: 5 -7

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in PM 1 plus the following:

- Accountable for the approval and sign-off of the program plan with customer representatives, such as portfolio managers, and all affected program stakeholders.
- Accountable for management of scope for the program and gaining agreement and approval of scope changes with customer representatives and affected stakeholders.
- Build and maintain relationships with key stakeholders and customer representatives.
- Direct work planning and scheduling design work.
- Manage, and track the program progress against the program plan.
- Serve as the primary point of contact for all program-related issues and resolution of issues.
- Coordinate and present proposals to agencies as necessary.
- Identify and manage program risk and develops risk mitigation strategies, track to closure.
- Ensure team leads adjust and revise estimates when necessary.
- Anticipate issues and proactively address them. Resolve conflicts with sensitivity and tact.
- Coordinate the establishment of program standards and program specific procedures with team leads.
- Responsible for project compliance with standards and procedures.
- Responsible for the capture and reporting of required program management metrics.

- Responsible to tailor and baseline all program templates.
- Develop and facilitate achievement of program service commitments and performance metrics.
- Ensure that tasks provide value and support the strategic direction of the program and meet service commitments; conduct reviews with agencies.
- Accountable for the final program management evaluation review with stakeholders for approval upon program completion.
- Communicate effectively with customers and software / hardware suppliers supporting Commonwealth as appropriate.
- Identify and track issues.
- Balance workload with program members' capacity.
- Communicate to team members how their work assignments relate to and help achieve program objectives.
- Plan program specific training and orientation needs.

PM3

Years of Relevant Experience: 7 plus years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in PM 2 plus the following:

- Accountable for activities with excess delivery cycles of 8 to 12 months.

Programmer

The Programmer is responsible for analysis, design, coding, component and assembly testing, documentation and placing in production of all application code owned by the Application Team. Programmers typically are involved in maintenance (including production support), enhancement and development work. Programmers have a range of skills and knowledge of the technologies used and applications supported by the Application Team. The Programmer works with the Functional Architect, Team Lead and Technical Architecture Specialist on an as needed basis to ensure that design and code meets customer requirements. Programmers may schedule nightly jobs and may be responsible for job status monitoring and recovery.

PR1

Years of Relevant Experience: Less than 2 years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

- Code enhancement and development programs and/or required fixes to production problems using the functional and technical programming standards.
- Test enhancement and development programs.
- Participate in structured code reviews / walkthroughs.
- Execute all required process steps.
- Create and provide content for operational documentation to Team Lead.
- Utilize configuration management tools, design tools, debugging tools, software code management tools and any other environment specific tools necessary to create, test, and implement an application.
- Research problems before approaching the Team Lead or Functional Architect for assistance.
- Limited functional knowledge.
- Follow quality standards.
- Support installation of application releases into production as directed.
- Communicate accurate and useful status updates.
- Ability to work in a team environment
- Complete assigned tasks.
- Strong communication skills; both written and spoken

PR2

Years of Relevant Experience: 2 to 5 years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in PR 1 plus the following:

- Analyze and design enhancements, development programs, and/or required fixes to production problems.
- Design applications to functional and technical programming standards.
- Conduct structured walk-throughs
- Work with Functional Architects and Team Lead to gather and interpret user requirements into design specifications
- Develop system specifications and interfaces.
- Determine time estimates and schedule for work.
- Moderate functional and process knowledge
- Assist in managing and directing Application Team processes.
- Coordinate work with other software developers on Application Teams.
- Assist Team Lead or Test Team Lead in monitoring estimated-time-to-complete (ETC) and actuals for assigned tasks
- Develop application designs in support of the systems specifications and interfaces, perhaps in conjunction with application or technical architects.
- Operating System expertise sufficient to perform performance and tuning diagnostics.
- Work with users to ensure that solutions meet business requirements.
- Execution of all responsibilities with little direct supervision of Team Lead.
- Generally aware of new developments in industry and process and has ability to apply them to work as appropriate.
- Anticipate and resolve issues specific to the team.
- Determine time estimates and schedule for own work and resolve issues in a timely manner.
- Identify and track issues, risks and action items.

PR3

Years of Relevant Experience: 5 plus years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in PR 2 plus the following:

- Plan all required process steps.
- Review and understand the Application Team's workplan.
- Provide status of work to Team Lead.
- Anticipate, identify, track and resolve issues and risks affecting own work and work of the Application Team. Develop contingency plans as necessary.
- Engage in ongoing process improvement.
- Detailed functional and process knowledge.
- Utilize deep modeling, design and coding skills.
- Provide expertise in one or more database environments.

PR4

Years of Relevant Experience: 8-10 years

Preferred Education: 4 year college degree or equivalent technical study with advanced study preferred.

Role Description:

All roles specified in PR3 plus the following:

- Converts scientific, engineering, and other technical problem formulations to formats that can be processed by computer.
- Resolves symbolic formulations, prepares flowcharts and block diagrams, and encodes resultant equations for processing by applying extensive knowledge of branch of science, engineering, or advanced mathematics, such as differential equations or numerical analysis, and understanding of capabilities and limitations of computer.
- This is a professional level non-supervisory position which may require coordination of programming activities being conducted by the team
- Confers with other business and technical personnel to resolve problems of intent, inaccuracy, or feasibility of computer processing.
- Works with necessary personnel to determine if modifications are necessary with interested personnel to determine necessity for modifications or enhancements.

- Leverages excellent written and verbal communication skills to develop new business process and programming solutions as directed by business and technical stakeholders.
- May coordinate activities of computer programmers.

PR5

Years of Relevant Experience: 10 plus years

Preferred Education: 4 year college degree or equivalent technical study with advanced study preferred.

Role Description:

All roles specified in PR4 plus the following:

- Proven track record of hands-on technical design and code work within large complex systems.
- Proven hands-on technical work with a variety of technologies.
- Demonstrated technical expertise integrating a variety of diverse technical environments and cross-platform technologies.
- Proven experience mentoring and performing supervisory functions for technical teams.
- Ability to make best practice recommendations based on past work.
- Proven ability to present complex technical constructs to business and non-technical users.
- Proven ability to collaborate with business users, project managers and technical architects

Quality Assurance Specialist

The Quality Assurance Specialist (QAS) is responsible for the design, pilot, and implementation of the software quality assurance review processes. The QAS Specialist will work with Application Teams during pre and post assessment periods. The QAS Specialist reports to the Quality Assurance Team Lead. For each phase end review the Quality Assurance Specialist is responsible to plan, schedule, execute, and document findings of the review. Quality Assurance Specialists must have a detailed understanding of processes which support the software development lifecycle. The Quality Assurance Lead is responsible for communicating with sponsors/stakeholders regarding the progress of the quality approach and a summary of the metrics, as well as managing the Quality Assurance Specialists.

QAS1

Years of Relevant Experience: 3 years software development and testing

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

- Assist in software activities in defined span of control for the organization.
- Track and monitor process and work product improvement opportunities.
- Collect, review, and evaluate the project's required work products against standard work product templates.
- Verify that established measurement procedures are used and all required metrics are collected
- Respond to requests for information.
- Coordinate work with others on team and across teams
- Draft report of observations, minor and major non-compliance.
- Develop quality standards.
- Monitor progress of action item resolution activity and ensure appropriate internal stakeholders are aware of pending deadlines.
- Conduct training courses with project teams on software quality review process.
- Research problems before approaching Quality Assurance Lead for assistance.
- Communicate accurate and useful status updates.
- Manage and report time spent on all work activities.
- Follow quality standards.
- Ability to work in a team environment
- Complete assigned tasks.
- Strong communication skills; both written and spoken

QAS2

Years of Relevant Experience: 5 years software development, testing, and project management

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in QAS 1 plus the following:

- Conduct software quality phase end review activities (work product and process) for each software project and produce the required quality assurance reports, as specified in the project's quality assurance plan.
- Ensure the software development process followed by the project teams is compliant with approved tailored processes.
- Review and check project's software development activities and the associated internal tasks required by the agencies as employed by the project and specified in the project plan.
- Prepare preliminary software quality audit package for review before conduct of audit.
- Define quality standards.
- Monitor progress of action item resolution activity and ensure appropriate stakeholders are aware of pending deadlines.
- Assist in managing and improving quality assurance team processes.
- Review and understand project team work plan.
- Determine time estimates and schedule for software quality review work. Conduct reviews according to schedule.
- Organize and prepare work effectively to facilitate proactive resolution of problems, rather than reactive.
- Identify and track issues, risks and action items affecting own work and work of team.
- Report on progress of action item resolution and possible risk areas.
- Anticipate and resolve issues specific to the team.
- Determine time estimates and schedule for own work and resolve issues in a timely manner.

QAS3

Years of Relevant Experience: 7 years software development, testing and project management

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in QAS 2 plus the following:

- Review project's required work products to ensure compliance with approved tailored procedures and standards.
- Review and check project's software development activities and the associated internal tasks required as employed by the project and specified in the project plan.
- Compare actual project procedures to the specified standards, procedures, and, if required, specific 3rd party contractual requirements.
- Perform detailed reviews of interim and final tasks as appropriate.
- Ensure process improvement opportunities are reviewed by appropriate contact to identify training needs of the organization.
- Perform or manage the required software quality phase end reviews of work product and process for each software project and produce the required software quality reports, as specified in the project's software quality plan.
- Develop, and manage short and long-term plans and schedules for organization wide software quality needs.
- Balance workload with team's capacity by managing the team's activities according to schedule and budgets.
- Coordinate and procure the required skills and techniques required.
- Obtain feedback from project teams regarding the overall effectiveness of processes and procedures – Forward to appropriate stakeholders and process owners.
- Provide feedback to project teams regarding process/procedure improvement opportunities and other potential areas for improvement discovered during software quality activities.
- Report all software quality-revealed non-compliance.
- Provide regular reports on the results of compliance reviews to the project team, project team leaders and management. Report on progress on action item resolution and possible risk areas.
- Anticipate and resolve issues dealing with software quality.
- Develop options and recommendations to assist teams in resolving issues.
- Ensure action items are addressed and closed based on agreed dates and activities.
- Ensure that defined processes are followed.
- Communicate related improvement measures to the project team.

- Obtain feedback from project teams regarding the overall effectiveness of software quality processes followed. Review with team and develop continuous improvement action plans. Report status to executive team.
- Communicate and work with customers and other personnel as necessary.
- Communicate clearly the team goals, organizational philosophies, and policies and procedures to the team.
- Communicate to team members the relationship between their work assignments and the team and project objectives.
- Lead efforts in developing and facilitating implementation of team goals and metrics.

Senior Business Subject Matter Expert

The Senior Business Subject Matter Expert (SME) brings proven experience from related businesses or organizations as well as system integration and technology experience. They consult with the client to define needs or problems, conduct research, perform studies and surveys to obtain data, and analyze problems to advise and make recommendations on business and technical solutions based on hands-on experience solving similar business problems. They are able to utilize knowledge of theory, principles, or technology of specific discipline or field of specialization.

SME1

Years of Relevant Experience: More than 10 years

Preferred Education: 4 year college degree in computer science or a related field with advanced study preferred; certifications specific to the field of project management.

Role Description:

- Consults with executive-level stakeholders to define business need or problem; conducts research, performs studies and surveys to obtain data; and analyzes problems to advise on or recommend solutions, utilizing knowledge of theory, principles, or technology of specific discipline or field of specialization.
- Requires knowledge in computer programming and other related technical fields as well as extensive experience in a particular business or industry subject matter.
- Conducts study or survey on need or problem to obtain data required for solution.
- Analyzes data to determine solution, such as installation of alternate methods and procedures, changes in processing methods and practices, modification of machines or equipment, or redesign of products or services.
- Advises client or department heads on alternate methods of solving need or problem, or recommends specific solution.
- Requires experience providing consulting services to governmental entities.
- May be designated according to field of business and technical specialization.

Senior Database Architect

The Senior Database Architect is responsible for designing, developing, and implementing infrastructure to provide highly-complex, reliable, and scalable databases to meet the organization's objectives and requirements. Database Architects are familiar with a variety of the database technologies, concepts, methodologies, practices, and procedures and rely on experience and judgment to plan and accomplish goals. Database Architects are able to perform a variety of complicated tasks with minimal or no direct supervision. They assist in defining system and application architecture and provide vision, problem anticipation, and problem solving ability to organization. They consult with the client to define needs or issues, conduct research, perform studies and surveys to obtain data, and analyze problems to advise on or recommend solutions, utilizing knowledge of theory, principles, or technology of specific discipline or field of specialization.

SDA1

Years of Relevant Experience: 8 plus years of database architecture experience

Preferred Education: 4 year college degree in computer science or related field with advanced study preferred.

Role Description:

- Possesses extensive knowledge of one or more database systems, and is capable of hands-on work in all phases of database design and management.

- Designs, develops, and implements infrastructure to provide highly-complex, reliable, and scalable database to meet the organization's objectives and requirements.
- Analyzes organization's business requirements for database design, and implements changes to database as required.
- Performs systems analysis on database, and resolves performance, capacity, and replication issues as necessary.
- Provides detailed design and specification documentation, including flowcharts, for all aspects of the database.
- Works with database analysts to develop methodologies, report views, queries, and table replications
- Ensures that all the data is in the proper format.
- Participates in the identification, prioritization, and development of technical initiatives and strategies.
- Develops and maintains database standards and naming conventions.
- Keeps up-to-date on emerging database architectures, technologies, and methodologies, and attends training classes as necessary.

Senior Program Manager

The Senior Program Manager is responsible for managing, coordinating, and establishing priorities for the complete life-cycle of projects including the planning, design, programming, testing, and implementation of business solutions designed to meet requirements of various departments in the company, such as distribution, finance, and manufacturing. Senior Program Managers are familiar with a variety of the project management methodologies and rely on experience and judgment to plan and accomplish goals. They have proven experience leading technology projects to successful implementation. They consult with the client to define needs or problems, conduct research, perform studies and surveys to obtain data, and analyze problems to advise on or recommend solutions, utilizing knowledge of theory, principles, or technology of specific discipline or field of specialization.

SPM1

Years of Relevant Experience: More than 10 years

Preferred Education: 4 year college degree in computer science or a related field; certifications specific to the field of project management.

Role Description:

All roles specified in PM3 plus the following:

- Manages, coordinates, and establishes priorities for complete life-cycle of projects including the planning, design, programming, testing, and implementation of business solutions designed to meet requirements of various departments in the company, such as distribution, finance, and manufacturing.
- Designs project plans, which identify needs and define major tasks and milestones, based on scope, resources, budget, and personnel.
- Requires proven success communicating verbally and in writing to multiple project stakeholders internal and external to the organization.
- Determines project needs and acquires resources required for the success of the project.
- Coordinates the development of new systems and/or applications projects, the modification of existing systems or applications, or changes in current methods or techniques.
- Coordinates project performance with the other work of the affected department or departments.
- Excludes those who do not have full time responsibilities for project management.

Service Desk

The Service Desk Analyzes and troubleshoots computer support problems and applies his or her understanding of computer software and hardware products and services to resolve user problems.

SD2

Years of Relevant Experience: 0-3 years; A+ certification preferred

Preferred Education: Usually prefer two years of postsecondary training in field of specialty; may accept equivalent education and experience combined.

Role Description:

- Receives telephone calls and e-mails from users having problems using computer software and hardware or inquiring how to use specific software, programming languages, electronic mail, or operating systems.
- Ascertains the nature of problem, determine whether problem is caused by hardware such as modem, printer, cables, or telephone, and log in tracking system.
- Escalates problems in accordance with defined procedures.
- Assists users through problem solving steps
- Uses technical databases to research problems, and talk with co-workers to research problem and find solution.
- Tests software and hardware for troubleshooting and problem resolution.
- Provides service and preventive maintenance activities on element exchange/baseline products (products with element exchange service and traditional maintenance philosophies; i.e., terminals, printers, personal computers, etc.).
- Able to diagnose and detect correct equipment errors and repair products by replacing worn or broken parts, and making technical adjustments.
- Makes appropriate use of reference publications and diagnostic aids in resolving technical problems.
- Assists in coordination of changes, upgrades and new products, ensuring systems will operate correctly in current and future environment.
- Provides accurate and complete answers to general use and administrative environment questions in a timely manner.
- Supports shared software, such as operating systems, configuration management tools, application and development tools, testing tools, compilers, and code editors.
- Communicates accurate and useful status updates.
- Manages and report time spent on all work activities.
- Follows quality standards.
- Ability to work in a team environment
- Completes assigned tasks.
- Strong communication skills; both written and spoken

SD3

Years of Relevant Experience: More than 3 years; A+ certification preferred; additional certification may be required based on specific technologies.

Preferred Education: 4 year college degree or equivalent technical study; may accept equivalent education and experience combined.

Role Description:

All roles specified in SD2 plus the following:

- Tests software and hardware to evaluate ease of use and whether product will aid user in performing work.
- Writes or revise training manuals and procedures.
- Develops training materials, such as exercises and visual displays.
- Trains users on software and hardware on-site or in classroom, or recommend outside contractors to provide training.
- Writes software and hardware evaluation and recommendation for management review.
- Implements shared software, such as operating systems, configuration management tools, application and development tools, testing tools, compilers, and code editors.

Software Process Engineer

The Software Process Engineer is responsible for implementing and supporting a set of standard software engineering processes used by agencies. The Software Process Engineer participates in the entire life-cycle of software process improvement initiatives. This includes the planning, analysis, design, construction, testing, and implementation of new processes. The Software Process Engineer is responsible for identifying opportunities for improving existing processes and implementing appropriate solutions.

The Software Process Engineer is also responsible for supporting projects and individual Teams in the use and understanding of processes on an ongoing basis. The Software Process Engineer is responsible for collaborating with the Team Lead(s) and Program Managers to provide guidance to team members and facilitate continual software process improvement. The Software Process engineer must understand

all aspects of the specific processes used by the Teams. The Software Process Engineer must also be familiar with industry process models and standards.

SPS1

Years of Relevant Experience: 3 years in Computer Software development

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

- Facilitate the implementation of standard software engineering processes.
- Identify software development process improvement opportunities either independently or through working with projects and teams.
- Assist in planning software process improvement initiatives.
- Direct and participate in teams working on the analysis, design, construction, testing, and implementation of new processes.
- Work with projects and teams to define the need for tailored processes and tools and assist in implementation, as appropriate.
- Provide ongoing support to projects and teams in the use and understanding of the software processes.
- Provide on-site support for teams on process related issues.
- Provide assistance to the Software Process Engineer Lead in planning and scheduling activities.
- Provide support in tracking and monitoring the success of process improvement initiatives.
- Monitor and solicit feedback on the usability and functionality of implemented processes.
- Communicate accurate and useful status updates.
- Manage and report time spent on all work activities.
- Follow quality standards.
- Ability to work in a team environment
- Complete assigned tasks.
- Strong communication skills; both written and spoken

SPS2

Years of Relevant Experience: 5 years in software development and testing

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in SPE 1 plus the following:

- Facilitate the implementation of standard software engineering processes across agencies.
- Determine time estimates and schedule for own work and resolve issues on a timely basis.
- Identify and track issues, risks and action items.
- Determine process to support various initiatives.
- Lead the development of content for process training and deliver process training as appropriate.
- Coordinate with various teams about process improvement opportunities.
- Anticipate and resolve issues specific to the team.
- Determine time estimates and schedule for own work and resolve issues in a timely manner.
- Identify and track issues, risks and action items.

SPS3

Years of Relevant Experience: 7 years total experience; 5 years in software development and testing

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in SPE 2 plus the following:

- Organize and prepare work effectively to facilitate proactive resolution of problems.
- Anticipate and resolve issues on a timely basis.
- Communicate accurate and useful status as appropriate.
- Demonstrate and promote a focus on client service.
- Communicate effectively with suppliers as appropriate.
- Work with internal customers and others to identify direction of software process.
- Identify knowledge in a form that is reusable.

System Administrator

The System Administrator is responsible for server back up and security, along with performance tuning and capacity planning. System Administrators should possess an understanding of network, distributed computing concepts, firewalls, active directory, system security and server virtualization. This is accomplished by working with the Systems Management Team Lead to understand the scope of services to be provided and assessing the impact they will have on the technical infrastructure.

SA1

Years of Relevant Experience: Less than 2 years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

- Familiarity with most basic system administrator tools and process; for example, can boot/shutdown a machine, add and remove user accounts, use back up programs, and maintain system database files.
- Maintain the project servers.
- Maintain the file and print capacity
- Ensures that backups are performed as appropriate.
- Act as a front-line interface to users.
- Accepts trouble reports and dispatch them to appropriate system administrators.
- Ability to write scripts in a particular administrative language.
- Programming experience with any applicable language.
- Communicate accurate and useful status updates.
- Manage and report time spent on all work activities.
- Follow quality standards.
- Ability to work in a team environment
- Complete assigned tasks.
- Strong communication skills; both written and spoken

SA2

Years of Relevant Experience: 2 to 4 years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in SA 1 plus the following:

- Responsible for operating and other system software.
- Responsible for upgrading the operating and system software and keeping patches current.
- Familiarity with fundamental networking/distributed computing environment concepts.
- Ability to do minimal debugging and modification of programs.
- Execute the disaster recovery/back up procedures and archiving procedures.
- Manage security for servers.
- Responsible for performance tuning, capacity planning, database administration, and fault management.
- Knowledge of high availability system architecture and implementation
- Provide tier two support of the technical infrastructure.
- Coordinating efforts with vendors if tier three support is required.
- Responsible for ensuring high priority issues are resolved in a timely manner.
- Responsible for keeping the environment up and running.
- In many cases is responsible for identifying and reporting hardware problems.
- Capable of writing purchase justifications.
- Understands basic routing concepts.
- Identify and track issues, risks, and action items.
- Resolve and/or assist in resolving issues.
- Review, prioritize, and research service requests.
- Anticipate and resolve issues specific to the team.
- Determine time estimates and schedule for own work and resolve issues in a timely manner.

SA3

Years of Relevant Experience: 4 plus years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in SA 3 plus the following:

- Solid understanding of networking/distributed computing environment concepts.
- Understands principles of routing client/server programming.
- Manage expectations at all levels: customers/end users, executive sponsors.
- Ensure quality standards are followed.
- Understand the business application of technical support and design in an application development environment.
- Work with the various Infrastructure teams and operations provider to identify the strategic direction of systems management activities.
- Understands the design of consistent network-wide file system layouts
- Maintain strong relationships with employees and various tier two and three support groups.
- Develop plans for disaster recovery/ back up and archiving.
- Manage the daily operations of the systems management team to ensure service levels are being met.
- Manage the systems management team's support issue and backlog.
- Monitor the team's open backlog of support issues and re-assign issues as necessary to ensure they are closed per agreed upon service levels.
- Act as the first level of escalation for high priority support issues.
- Function as the liaison to the various support groups with whom the systems management team interfaces.
- Develop the technical infrastructure maintenance strategy.
- Manage the system management resources.
- Act as a system's management expert.
- Analyze, determine, and document requirements in terms of system management needs and implement them.
- Identify, approve, and prioritize team projects.
- Manages a large site or network.
- Recommends policies on system use and services.

System Specialist

The System Specialist is knowledgeable on the usage and support of a collection of development platforms or technical architectures, and products that run on those platforms. The primary responsibility of a System Specialist is to ensure the availability and facilitate the productive use of a development platform or a test environment for Application Teams or end users. The System Specialist may support one or several instances of a platform/environment, applying their skills directly to a platform/environment and/or leveraging their skills across multiple platforms/environment. The System Specialist may, especially for usage and support of a platform, be part of an Application Team using the architecture. The System Specialist requires experience and skills in the environment supported and in the operations and in common usage of products for the environment The System Specialist are responsible for collaborating with Technical Architecture Specialist, Functional Architects, Programmers and vendors to coordinate and enhance the use of the platform and facilitate migration to new versions of the platform.

SS1

Years of Relevant Experience: 1-3 years in desired environment

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

- Assist in coordination of testing changes, upgrades and new products, ensuring systems will operate correctly in current and future environment.
- Make recommendations on functional and technical improvements to the environment.
- Participate in performance and volume analysis and design.
- Participate in performance improvement activities. Identify and apply potential improvements related to the environment for an application.

- Provide accurate and complete answers to general use and environment questions in a timely manner.
- Provide effective on-site environment support as needed.
- Accurately set severity of identified defects.
- Provide input to training and/or documentation materials regarding latest technical and functional design changes.
- Ensure that all work is documented for future reference.
- Follow quality standards.
- Ensure effective and reliable backups are being performed and distributed properly.
- Proactively address customer needs.
- Track and anticipate volume and type of use of the environment.
- Plan and implement shared software, such as operating systems, configuration management tools, application and development tools, testing tools, compilers, and code editors.
- Basic scripting and programming skills, including languages that run on specified platform.
- Analytical and customer service skills.
- Communicate accurate and useful status updates.
- Ability to work in a team environment
- Complete assigned tasks.
- Strong communication skills; both written and spoken

SS2

Years of Relevant Experience: 3-5 years in desired environment

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in SS 1 plus the following:

- Plan and manage network operating system upgrades.
- Actively participate in analyzing and evaluating emerging software and hardware technologies/standards.
- Serve as a liaison between teams for network planning and connectivity.
- Develop appropriate functional and usability standards for the environments.
- Plan or assist in planning network environment, including supporting existing structure and enhancements.
- Plan and coordinate testing changes, upgrades and new and standard products, ensuring systems will operate correctly in current and future environment.
- Anticipate, identify, track and resolve issues and risks affecting own work and work of the Application or Environment team. Develop contingency plans as necessary.
- Analyze the functional and/or technical impact of new product releases.
- Advanced scripting and programming skills, including languages that run on specified platform.
- Anticipate and resolve issues specific to the team.
- Determine time estimates and schedule for own work and resolve issues in a timely manner.
- Identify and track issues, risks and action items.

SS3

Years of Relevant Experience: 5 plus years in desired environment

Preferred Education: 4 year college degree or equivalent technical study

Role Description: All roles specified in SS 2 plus the following:

- Identify opportunities for new and improved technologies/standards to be used in the organization.
- Identify, plan, and implement phase-out strategies for products and technologies.
- Plan and coordinate testing changes, upgrades and new products, ensuring systems will operate correctly in current and future environment.
- Demonstrate expertise in teaching/conveying technical courses/concepts.
- Assist in setting architecture direction and knowledge sharing.
- Plan, organize, prioritize, and manage multiple work efforts the Application or Environment Teams.
- Develop appropriate work programs and use to effectively schedule tasks/assignments.

Team Lead

The Team Lead manages an Application Team to deliver services according to defined service level commitments owned by the Application Team. The Team Lead coordinates resources and work to deliver solutions to customers on time and within budget. The Team Lead is assigned responsibility and accountability for overseeing the successful completion of all work assigned to the Application Team. The Team Lead is a process expert within the Application Team, understanding the software development / maintenance processes and verifying process conformance. The Team Lead will monitor stability of production applications owned by the Application Team. The Team Lead assists Application Team members in development activities and reviews tasks as required. The Team Lead manages and updates progress towards Application Team objectives, assists Application Team members in resolving problems, and engages in personnel management and guidance to Application Team members. The Team Lead fosters a positive work environment by mentoring, supporting, and committing to the professional development of Application Team members. The Team Lead reports to the Group Lead or Program Manager, as appropriate. The difference between a TL1 and a TL2 will depend on the size of the project, and the breadth and scope of the project.

TL1

Years of Relevant Experience: 4 to 5 years, and 1 to 2 years project management experience.

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

- Monitor stability of production applications owned by Application Team.
- Prepare estimates for maintenance and enhancement of existing applications and development of new applications.
- Perform detailed reviews of interim and final tasks as appropriate.
- Process work requests; review, prioritize, and package.
- Manage and review tasks of suppliers and other interfaces to the Application Team.
- Conduct structured walk-throughs or inspections; manage issues to closure.
- Develop and manage short and long-term plans and schedules.
- Direct the development of accurate estimates for Application Team activities as required.
- Balance workload with Application Teams capacity by managing the Application Teams activities according to schedule.
- Manage the accomplishment of delivery metrics to support contractual obligations in the areas of service delivery and on time performance commitments and productivity improvement.
- Ensure work remains within the agreed scope.
- Track workplan baseline against results.
- Coordinate / communicate with Group Leads and / or Program Manager to ensure initiatives are in accordance with agreed customer commitments as planned.
- Proactively identify and manage issues/risks affecting the project.
- Communicate accurate and useful status to Group Lead and other management on a timely basis.
- Identify and initiate continuous improvements.
- Instill commitment to quality, customer service, ownership, and teamwork.
- Conduct post project wrap-ups.
- Monitor and measure maintenance and development process effectiveness.
- Ensure that defined processes are followed.
- Manage expectations of the Application Teams internal and external customers.
- Facilitate communication and knowledge sharing within the Application Teams.
- Maintain awareness of new developments in industry and processes and apply as appropriate.
- Develop and deepen understanding of system business requirements supported by the Application Team.
- Communicate clearly the Application Team goals, organizational philosophies, and policies and procedures to the Application Teams.
- Conduct structured walk-throughs or inspections; manage issues to closure.
- Communicate clearly the Application Team goals, organizational philosophies, and policies and procedures to the Application Teams.

TL2

Years of Relevant Experience: 5 plus years, and 2 to 3 years project management experience

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in TL 1 plus the following:

- Manage the resolution of high severity production problems.
- Manage and direct Application Team activities employing appropriate program management and planning principles.
- Coordinate work with other Team Leads as appropriate.
- Coordinate and procure the required skills and techniques required by the Application Team.

Technical Architecture Specialist

The Technical Architecture Specialist is the technical expert centered on a technology, technologies or a portfolio of applications. The Technical Architecture Specialist is the technologist who coordinates with other parties in setting the technical approach and direction and implementation for work. The Technical Architecture Specialist provides technical design expertise, defines what technical requirements are needed to support defined business requirements, participates in detailed design and code reviews, reviews system performance issues, reviews test plans, and provides technical guidance to the Application Team and Test Team members. The Technical Architecture Specialist is responsible for collaborating with the Team Lead(s) to coordinate project schedules, budgets, request management, and work authorization. The expert level Technical Architecture Specialist will interface with Executive Sponsors, Group Leads, and Lead Functional Architects to convey infrastructure requirements, plan, and schedule deployment of tasks, and resolve any issues that impact the deployment of the Application Delivery systems.

TAS1

Years of Relevant Experience: 1 to 2 years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

- Define test plans and criteria for acceptance for the technical components of an application.
- Ensure business requirements are supported by the technical architecture.
- Assist in leading technical direction of software; coordinating and presenting proposals to Group Leads, Leads, and the client.
- Define and evaluate logical and physical data models.
- Assist in development of overall system technical architecture – including software and hardware.
- Define test plans and criteria for acceptance for the technical components of an application.
- Analyze, determine, and document technical requirements and change request impact analysis.
- Participate in detailed design and product test execution as required.
- Develop technical programming standards.
- Ensure business requirements are supported by the technical architecture.
- Conduct structured walk-throughs or inspections for technical areas; resolve issues.
- Assist in defining technical programming standards.
- Communicate accurate and useful status updates.
- Manage and report time spent on all work activities.
- Follow quality standards.
- Ability to work in a team environment
- Complete assigned tasks.
- Strong communication skills; both written and spoken

TAS2

Years of Relevant Experience: 2 to 5 years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in TAS 1 plus the following:

- Develop overall system technical architecture - including software and hardware.
- Perform review of technical designs, code, and component test plans.
- Resolve and / or assist in resolving cross application technical issues.
- Conduct structured walk-throughs or inspections for technical areas; resolve issues.
- Anticipate and resolve issues specific to the team.

- Determine time estimates and schedule for own work and resolve issues in a timely manner.
- Identify and track issues, risks and action items.

TAS3

Years of Relevant Experience: 5 plus years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in TAS 2 plus the following:

- Ensure consistency and completeness across data models.
- Plan and deliver development architecture environments in coordination with the Environmental Support Specialist.
- Assist in managing and directing team's technical architecture processes.
- Provide assistance in scheduling design work for Lead Technical Architecture Specialist.
- Develop and document expert practices/ standards.
- Possesses strong analysis, presentation, documentation and quality assurance skills.
- Analyze, determine, and document technical requirements and impact analysis for technical and development architectures.
- Explain defect priorities and enhancement classifications to client and customer when needed.
- Maintain awareness of new technological developments in industry and processes - implement concepts appropriately.
- Lead or participate in setting the service levels for the application.
- Define overall system logical architecture.
- Provide standard, well-structured work planning which defines scope, resources, milestones, quality, risk, tasks, and acceptance criteria.
- Prepare contingencies, scenarios, scenario plans and action items to resolve issues.
- Lead efforts in providing technical expertise, guidance, and training to the Application and Test Teams.

TAS4

Years of Relevant Experience: 5 plus years, and 1 to 2 years project management experience

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in TAS 3 plus the following:

- Communicate effectively with IT staff, client organization and software / hardware suppliers.
- Lead efforts in designing technical strategy, direction and approach, technical architecture, data architecture, development architecture, performance tuning, performance and capacity analysis, technical standards, technical reliability and flexibility.
- Design and define overall system technical architecture - including software and hardware within the framework and constraints of technical architecture.
- Evaluate alternative designs.
- Maintain control of specific tools and assets.
- Own the technical architecture for a portfolio of applications, including the interpretation and application of the technical architecture.
- Plan, design development and/or execution of architectures. Participate in the plan and design of technical architecture.
- Assist with the preparation of estimates for new technology applications and maintenance of existing applications as part of Service Management.
- Provide experience in utilizing the project architecture. Acknowledged as highly competent in one or more technologies.
- Communicate accurate and useful status reports and other management on a timely basis.
- Coordinate and conduct project architecture, infrastructure review meetings, and portfolio review meetings with Group Lead, Lead Functional Architects, and Team Leads. Integrate issues and identify impacts.
- Communicate and resolve application interface issues.
- Communicate to team members the relations between their work assignments and the organizational and/ or program strategy, objectives, business and technology needs of the application / system.
- Share knowledge across teams with both similar and non-similar applications, specifically focusing on Technical Architecture

- Interpret and communicate technical architecture to the Technology Application Architecture Team (s).

Technical Writer

The Technical Writer develops and maintains user and technical documentation and project process documentation for Application Teams. Technical Writer understands the user's view of applications and /or technology and is able to put procedures in a logical sequence. The experienced Technical Writer provides expertise on technical concepts of applications and/or user groups and structuring procedures in a logical sequence, due to a broad understanding of the applications within their Tower.

TW1

Years of Relevant Experience: 1 to 3 years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

- Develop, enhance, and maintain user documentation for multiple applications including documentation required for the operations provider.
- Develop on-line source documentation as appropriate.
- Maintain documentation libraries and subscription lists.
- Identify, create, revise, and maintain documentation and templates needed by the Application Teams.
- Ensure appropriate control access/use of documentation materials.
- Maintain application and user documentation.
- Ensure messages and terminology is consistent across all written materials.
- Research and complete documentation service requests.
- Communicate and work with customers and other Client Telecommunications personnel as necessary.
- Work with Application Team members to enhance their understanding of end-user and technical documentation.
- Communicate accurate and useful status updates.
- Manage and report time spent on all work activities.
- Follow quality standards.
- Ability to work in a team environment
- Complete assigned tasks.
- Strong communication skills; both written and spoken

TW2

Years of Relevant Experience: 3 to 5 years.

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in TW 1 plus the following:

- Review and prioritize documentation service requests.
- Determine procedures for use of on-line documentation tools and version control documentation as appropriate.
- Assist or guide other Technical Writer as needed to develop and maintain user and technical documentation for their assigned applications.
- Educate both business and technical groups on the essential need for developing and using standard documentation for all processes.
- Organize and prepare work effectively to facilitate proactive resolution of problems, rather than reactive.
- Research problems before approaching Lead Technical Writer or Team Lead for assistance.
- Assist the Application Team Lead in monitoring budget by providing estimated-time-to-complete and actuals for assigned tasks.
- Identify and make recommendations around documentation and templates needed by the Application Teams.
- Work with users and other Commonwealth personnel to ensure that the solutions meet Commonwealth business requirements.
- Identify and initiate continuous improvement opportunities.
- Direct the development of accurate estimates for documentation requests/activities as required

- Develop options and recommendations to assist documentation team members in resolving issues.
- Lead efforts in developing and facilitating implementation of the Documentation team goals and metrics.
- Develop workable, practical, measurable work plans defining activities, schedules and tasks with Team Leads and the Lead Technical Writer
- Review and understand the Application Teams workplan.
- Anticipate and resolve issues specific to the team.
- Determine time estimates and schedule for own work and resolve issues in a timely manner.
- Identify and track issues, risks and action items.

TW3

Years of Relevant Experience: 5 plus years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in TW 2 plus the following:

- Review and approve procedures for use of on-line documentation tools as appropriate.
- Identify business and technical documentation needs not currently addressed.
- Manage Technical Writer.
- Own documentation libraries and subscription lists.
- Promote the need for developing and using standard documentation for all processes within the organization.
- Perform detailed reviews of interim and final tasks as appropriate.
- Oversee processing of service requests.
- Manage, deploy, and schedule Technical Writer activities.
- Develop and manage short and long-term documentation plans and schedules.
- Understand work requests/needs within Application Teams
- Manage the accomplishment of delivery metrics in support of contractual obligations in the areas of service delivery, on time performance.
- Work with Team Leads and Group Leads to set documentation goals.
- Ensure work remains within the agreed project scope.
- Coordinate work with other Lead Technical Writers as appropriate.
- Coordinate and procure the required skills and techniques required by the Application Teams for documentation needs.
- Communicate accurate and useful status reports to Group Lead and other management on a timely basis.
- Anticipate, identify, track and resolve issues and risks affecting own work and work of the Application Team. Develop contingency plans as necessary.
- Manage expectations of the Technical Writers' internal and external customers.
- Define documentation quality standards as needed.
- Conduct post project reviews and quality assessments.
- Ensure that defined processes are followed.
- Communicate related improvement measures to the team.
- Communicate clearly to Technical Writers their goals, organizational philosophies, and policies and procedures.

Telecom Engineer

The Telecom Engineer configures and installs hardware, wiring, and specialized equipment according to local building and electrical codes. The Telecom Engineer may also be responsible for the end-to-end installation of cable, wiring, and related equipment. The Telecom Engineer typically works closely with facilities/construction managers and site-based project managers. The Telecom Engineer should be able to accurately estimate the time and materials needed for tasks assigned. It is not uncommon for the Telecom Engineer to supervise a team of people and coordinate activities with other construction teams.

TE1

Years of Relevant Experience: 0 to 2 years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

- Ensures proper connectivity from site-to-site and internal to facility.
- Experience with CAT5, Romex, and similar cables/wiring.
- Pulls cable and ensure adherence to all building codes.
- Escalates construction and installation problems to the construction/integration manager, as needed.
- Prepares all job-related paperwork.
- Closes out work authorization when equipment is in service.

TE2

Years of Relevant Experience: 2 to 5 years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in TE1 plus the following:

- Inspects customer premises to ascertain available space for equipment installation
- Determines the type and quantity of equipment that can be installed to provide requested communication facilities.
- Creates floor plan of equipment arrangement for customer or architect approval.
- Prepares cost estimate for equipment and installation and submit data to management for authorization to proceed.
- Orders equipment and prepare installation specifications.
- Monitors progress of installation to ensure facilities are ready on specified date.

TE3

Years of Relevant Experience: 5 plus years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in TE2 plus the following:

- Leads full integration teams and interact with large infrastructure teams.
- Acts as telecommunications interface to outside vendors and construction manager.
- Directs activities related to the selection and installation of telephone facilities and special equipment on premises to meet customer's communication requirements.

Tester

The Tester is a member of a team which plans, constructs, and executes product tests, system tests, unit tests, load tests, volume tests, network tests as well as works with others for release control processes. The more experienced Tester manages, plans, constructs, and executes tests and integrates with release control process. Testers have or gain significant business application knowledge.

Test1

Years of Relevant Experience: Less than 2 years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

- Creates test models for product test and release control (plans, data, and scripts).
- Conducts structured walk-throughs
- Executes assembly or product tests.
- Meets time estimates for assigned tasks.
- Communicates accurate and useful status updates.
- Follows quality standards.
- Ability to work in a team environment
- Completes assigned tasks.
- Develops contingency plans as needed
- Strong communication skills; both written and spoken

Test2

Years of Relevant Experience: 2 to 4 years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in Test 1 plus the following:

- Defines product test plans and criteria for acceptance.
- Develops understanding of system business requirements supported by the Test team
- Develops, updates, and maintains testing standards and procedures.
- Resolves testing process questions / issues.
- Assists in the planning, creation, and control of the test environments.
- Conducts inspections; resolve issues.
- Coordinates and executes assembly or product tests with the Test Team, Application Team and the Program Manager.
- Assists Team Lead or Test Team Lead in monitoring estimated-time-to-complete (ETC) and actuals for assigned tasks.
- Works with Test Team members to enhance their testing skills and build technical and business knowledge.
- Updates and tests release installation procedures.
- Aware of new developments in industry and processes and ability to apply to work as appropriate.
- Determines time estimates and schedule for work efforts.
- Defines and utilizes entry / exit criteria for testing.
- Schedules the design of structured walk-throughs or inspections; resolve issues.
- Works with users to ensure that solutions meet business requirements.
- Anticipates and resolves issues specific to the team.
- Determines time estimates and schedule for own work and resolve issues in a timely manner.
- Identifies and tracks issues, risks and action items.

Test3

Years of Relevant Experience: 4 plus years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in Test 2 plus the following:

- Reviews and understands the Test Team work plan.
- Assists in managing and directing Test Team processes.
- Anticipates, identifies, tracks, and resolves issues and risks affecting own work and work of the Test and/or Application Teams. Develop contingency plans as necessary.
- Researches problems before approaching the Team Lead or Test Team Lead for assistance.
- Assists or guide Testers as needed.
- Develops understanding of system business requirements supported by the Test team
- Assists Application Teams to plan and execute component and assembly tests.
- Participates in assembly or product test execution as required.

Test4

Years of Relevant Experience: 5 plus years, and at least 1 year project management experience

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in Test 3 plus the following:

- Leads all efforts relating to testing and/ or coordination of release control efforts.
- Plans and reviews test models for product test and release control (plans, data, and scripts).
- Plans product test with Functional Team Leads, team members, and the Program Manager.
- Acts as primary point of contact for testing facilitators, executors, and validators.
- Defines test plans and criteria for acceptance.
- Coordinates the development, updating, and maintenance of testing standards and procedures.
- Approves Entry/Exit criteria to be used.
- Manages and directs the Test Team's tasks and processes by balancing team capacity and schedule.
- Directs work planning and the development of accurate estimates for Test Team activities as required.
- Ensures that test design remains within project scope.
- Communicates accurate and useful status reports to Group Lead and other management on a timely basis.
- Develops options and recommendations to assist Test Team members in resolving issues.

- Communicates effectively with customers and software / hardware suppliers supporting the State as appropriate.
- Conducts post project reviews and quality assessments.
- Defines testing quality standards as needed.
- Ensures that defined processes are followed.
- Leads efforts in developing and facilitating implementation of the Test Team goals and metrics.

Voice/Data Engineer

The Voice/Data Engineer directs and participates in all activities related to the selection and installation of telephone facilities and special on-premises equipment that will meet the customer's communication requirements. The Voice/Data Engineer is responsible for all technology and connectivity involving telecommunications and data networks. The Voice/Data Engineer will typically specialize in telephony and data interfaces and systems that have proprietary functions within the communications area of a corporation/business. General wiring excluded, the Voice/Data Engineer ensures that any specialized conduit or wiring is properly deployed and installed according to code. The Voice/Data Engineer is also an expert in audio/visual, teleconferencing, and voice mail equipment. Often times, the Voice/Data Engineer is specialized or is certified in a particular piece of equipment.

VDE1

Years of Relevant Experience: 0 to 2 years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

- Ensures proper connectivity of voice and data services and technologies.
- Interacts and work with Telecom Engineer, Integration Engineer, or Project Manager.
- Prepares all job-related paperwork
- Closes out work authorization when equipment is in service.

VDE2

Years of Relevant Experience: 2 to 5 years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in VDE1 plus the following:

- Prepares equipment floor plan for customer or architect approval.
- Determines telephone, data services/components, and audio visual equipment placement within facility.
- Acts as installer of equipment for data/voice or Audio visual use.
- Installs, tests, configures, and trains users on products and equipment.
- Supports systems and products associated with telecommunications/telephone and data within a facility or department.

VDE3

Years of Relevant Experience: 5 plus years

Preferred Education: 4 year college degree or equivalent technical study

Role Description:

All roles specified in VDE2 plus the following:

- Familiar with at least one type of equipment or service that is highly specialized.
- Prepares cost estimate for equipment and installation and submit data to management for authorization to proceed with job.
- Orders equipment and prepare installation specification.
- Monitors installation progress to ensure that the facilities are ready on projected date.
- Leads a team of installers and junior Voice/Data Engineers.