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BSIT 4-2

SAM

**ACTIVITY: Given the following job positions, provide their duties before, during and after every system deployment.**

*1.* ***Software Engineer/Programmer****:*

* Before:
  + Develop and test the new system according to specifications.
  + Write clear and concise code with documentation.
  + Conduct unit and integration testing.
  + Collaborate with other developers and stakeholders on design and implementation.
* During:
  + Prepare the application for deployment, including packaging and configuration.
  + Monitor the deployment process and address any issues that arise.
  + Collaborate with system administrators on technical aspects of deployment.
* After:
  + Fix bugs and address post-deployment issues.
  + Monitor the system performance and usage.
  + Provide technical support to users.
  + Enhance the system based on user feedback and changing requirements.

***2. Quality Assurance Analyst:***

* Before:
  + Review system specifications and design documents.
  + Develop test plans and test cases.
  + Identify potential risks and areas of concern.
* During:
  + Execute test cases and document results.
  + Report bugs and defects to developers.
  + Monitor the deployment process for functionality and performance issues.
* After:
  + Perform regression testing after bug fixes.
  + Monitor ongoing system performance and usability.
  + Assist with user training and feedback collection.

***3. Business Analyst:***

* Before:
  + Gather and analyze business requirements for the new system.
  + Define system objectives and success metrics.
  + Create functional and technical specifications.
  + Document user workflows and processes.
* During:
  + Provide user training and support during deployment.
  + Communicate with stakeholders and keep them informed of progress.
  + Address any business-related issues that arise during deployment.
* After:
  + Evaluate the success of the system against defined metrics.
  + Identify areas for improvement and gather user feedback.
  + Work with project manager and other stakeholders on future releases.

***4. Database Administrator:***

* Before:
  + Design and configure the database for the new system.
  + Populate the database with test data.
  + Implement security measures and backup procedures.
* During:
  + Migrate data to the new database if necessary.
  + Monitor database performance during deployment.
  + Address any database-related issues that arise.
* After:
  + Optimize the database for performance and efficiency.
  + Monitor ongoing database activity and security.
  + Provide technical support to developers and users related to database access.

***5. System Administrator:***

* Before:
  + Prepare the IT infrastructure for the new system.
  + Install and configure required software and hardware.
  + Implement security measures and access controls.
* During:
  + Deploy the system onto the production environment.
  + Monitor system performance and resource utilization.
  + Address any technical issues that arise during deployment.
* After:
  + Maintain the system and apply updates and patches.
  + Provide technical support to users and other IT staff.
  + Monitor system security and ensure compliance with security policies.

***6. Project Manager:***

* Before:
  + Define project scope, schedule, and budget.
  + Secure resources and assign tasks to team members.
  + Manage risks and track progress.
  + Communicate with stakeholders and ensure alignment.
* During:
  + Oversee the deployment process and address any roadblocks.
  + Coordinate communication and collaboration between different teams.
  + Manage budget and resource allocation.
  + Ensure adherence to project timeline.
* After:
  + Evaluate the success of the project and document lessons learned.
  + Close out the project and handle post-deployment activities.
  + Prepare reports and presentations for stakeholders.

***7. Cloud Engineer:***

* Before:
  + Design and build the cloud infrastructure for the new system.
  + Configure security and access controls in the cloud environment.
  + Estimate cloud resource requirements and optimize costs.
* During:
  + Deploy the system to the cloud environment.
  + Monitor system performance and resource utilization in the cloud.
  + Address any cloud-related issues that arise during deployment.
* After:
  + Manage cloud infrastructure and resources.
  + Optimize cloud costs and resource usage.
  + Ensure cloud security and compliance with regulations.
  + Maintain and update the cloud environment as needed.