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BSIT 4-2

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

1. **Software Engineer/Programmer:**

   a. Before:
      - Collaborate with stakeholders to gather requirements.
      - Design and develop software components or applications.
      - Conduct unit testing to ensure individual components work as intended.
      - Collaborate with other team members for code review.

   b. During:
      - Integrate developed components into the overall system.
      - Debug and troubleshoot issues during the deployment phase.
      - Collaborate with quality assurance to address and fix reported bugs.

   c. After:
      - Provide ongoing support and maintenance for the deployed software.
      - Address post-deployment issues and bugs.
      - Work on any additional features or updates requested.

2. **Quality Assurance Analyst:**

   a. Before:
      - Develop test plans and test cases based on requirements.
      - Collaborate with stakeholders to understand the system functionalities.
      - Perform static testing, review documentation, and participate in design reviews.

   b. During:
      - Execute test cases to identify and report defects.
      - Collaborate with developers to address and fix reported issues.
      - Conduct regression testing to ensure existing functionalities are not affected.

   c. After:
      - Evaluate the overall testing process and suggest improvements.
      - Document and report on the testing process and outcomes.
      - Provide support for user acceptance testing if needed.

3. **Business Analyst:**

   a. Before:
      - Gather and analyze business requirements.
      - Create business process models and documentation.
      - Collaborate with stakeholders to ensure alignment between business needs and system capabilities.

   b. During:
      - Act as a liaison between business stakeholders and the development team.
      - Assist in user acceptance testing and validation of system functionalities.
      - Address and communicate any changes in requirements.

   c. After:
      - Evaluate the success of the project in meeting business objectives.
      - Document lessons learned for future projects.
      - Support ongoing optimization of business processes.

4. **Database Administrator:**

   a. Before:
      - Design and plan the database architecture based on system requirements.
      - Ensure data integrity and security measures are in place.
      - Collaborate with developers to optimize database queries and performance.

   b. During:
      - Implement and configure the database during system deployment.
      - Monitor and optimize database performance.
      - Address any database-related issues during deployment.

   c. After:

- Perform regular maintenance tasks, such as backups and updates.
- Monitor and tune the database for ongoing performance.
- Troubleshoot and resolve database-related issues.

5. **System Administrator:**

   a. Before:
      - Plan and configure the system infrastructure.
      - Ensure hardware and software requirements are met.
      - Collaborate with other teams to define system specifications.
   b. During:
      - Deploy and configure the system components.
      - Monitor system performance and address any issues.
      - Collaborate with other teams to resolve integration problems.
   c. After:
      - Perform ongoing system maintenance tasks.
      - Address any post-deployment issues related to system administration.
      - Plan for system upgrades and updates.

6. **Project Manager:**

   a. Before:
      - Develop and manage project plans and schedules.
      - Coordinate with various teams to ensure alignment with project goals.
      - Manage resources and budget for the project.
   b. During:
      - Monitor project progress and address any issues.
      - Communicate with stakeholders about project status.
      - Ensure that the project stays on schedule and within budget.
   c. After:
      - Conduct a post-implementation review to evaluate project success.
      - Document lessons learned and areas for improvement.
      - Transition the project to ongoing support and maintenance teams.

7. **Cloud Engineer:**

   a. Before:
      - Design and plan the cloud infrastructure.
      - Configure and deploy cloud resources based on system requirements.
      - Ensure security and compliance with cloud provider services.
   b. During:
      - Implement and configure cloud services during system deployment.
      - Monitor cloud resources and address any issues.
      - Collaborate with other teams to optimize cloud performance.
   c. After:
      - Perform ongoing maintenance and optimization of cloud resources.
      - Monitor and address any post-deployment issues related to cloud services.
      - Plan for scalability and future enhancements in the cloud environment.