****This study guide is based on the video lesson available on TrainerTests.com****

The Silo Approach in Software Development Study Guide

This chapter explores the traditional silo approach in software development and its challenges.

Breakdown of the Silo Approach

The traditional silo approach separates software development into distinct stages managed by independent teams:

- **Development Team:** Responsible for writing the code for the application.
- **Quality Assurance (QA) Team:** Tests the application for functionality and bugs.
- **Operations Team:** Deploys and manages the application in production.

Communication Bottlenecks

This segmented approach creates communication bottlenecks and inefficiencies:

- **Handoffs and Delays:** Each team works independently and passes the code between them at different stages. This creates delays as issues are identified and require rework.
- **Limited Feedback:** Development teams might not receive timely feedback on code problems, leading to bugs persisting until later stages.
- **Blame Game:** When issues arise in production, it's unclear whether it's a development or operations problem, fostering finger-pointing between teams.

Drawbacks of the Silo Approach

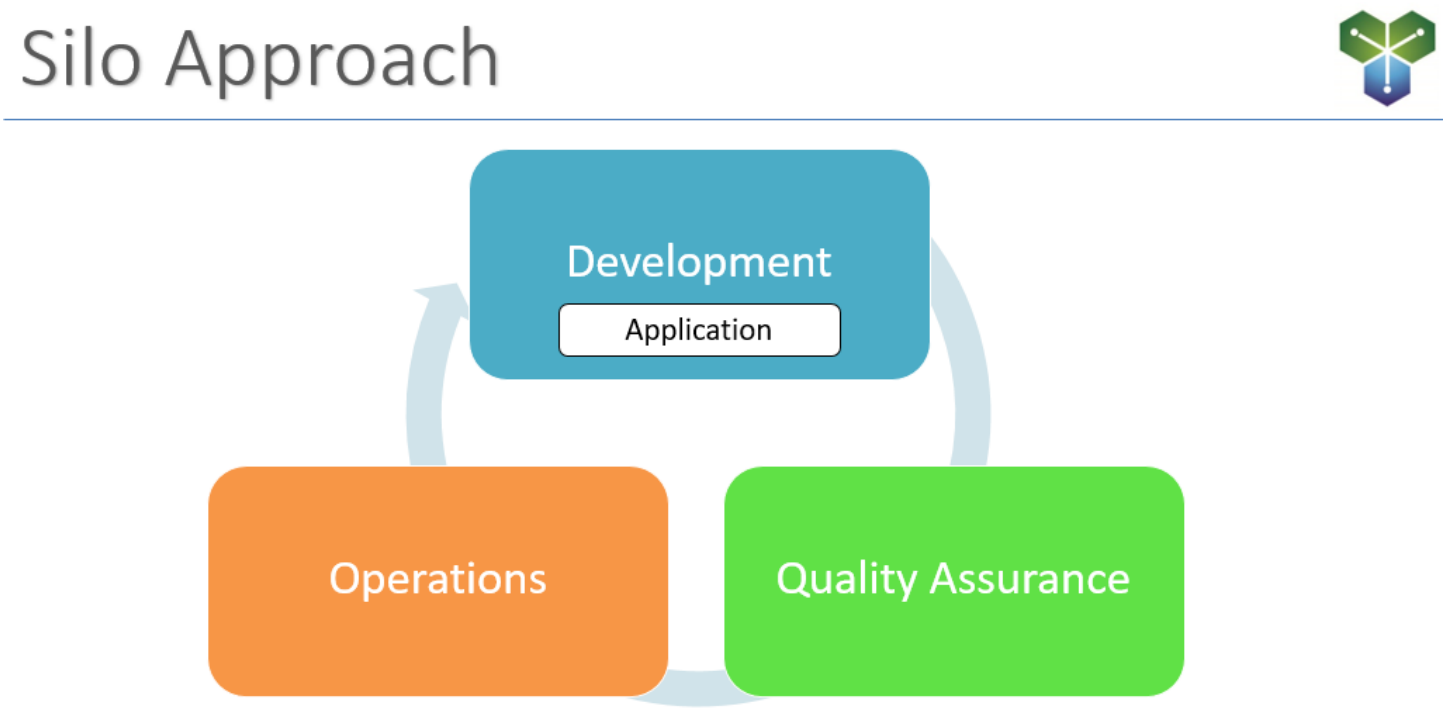
The silo approach leads to several drawbacks:

- **Slow Time to Market:** The back-and-forth communication and rework slow down the process of releasing the software to market.
- **Reduced Software Quality:** Less frequent testing and communication gaps can lead to more bugs being introduced into production.
- **Team Conflict:** The "throw it over the wall" mentality can create an adversarial relationship between development and operations teams.

Need for a Better Approach

The limitations of the silo approach highlight the need for a more collaborative and integrated development process. The next chapter will explore DevOps, a methodology that breaks down these silos and fosters better communication and workflow between development and operations teams.

*See slides below:



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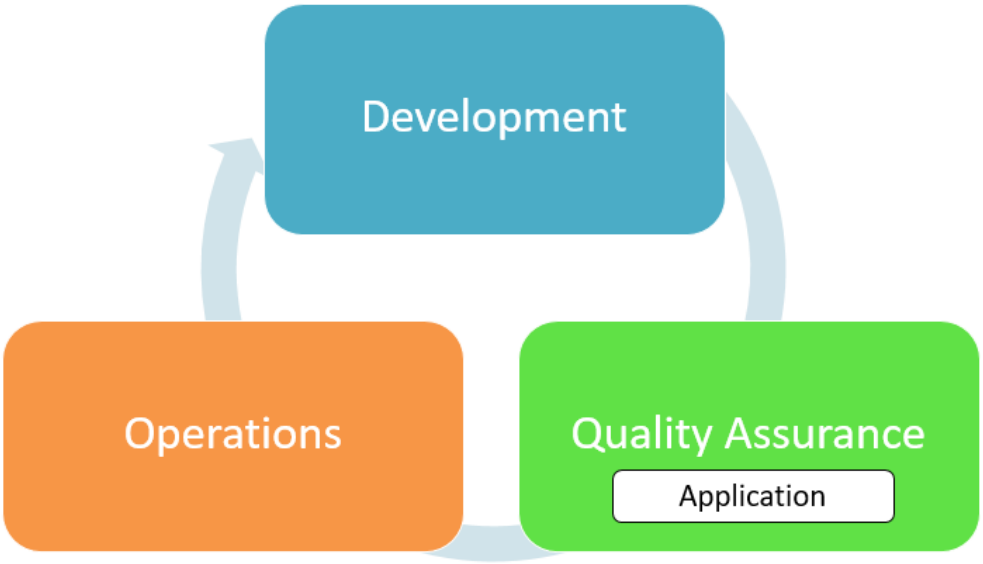

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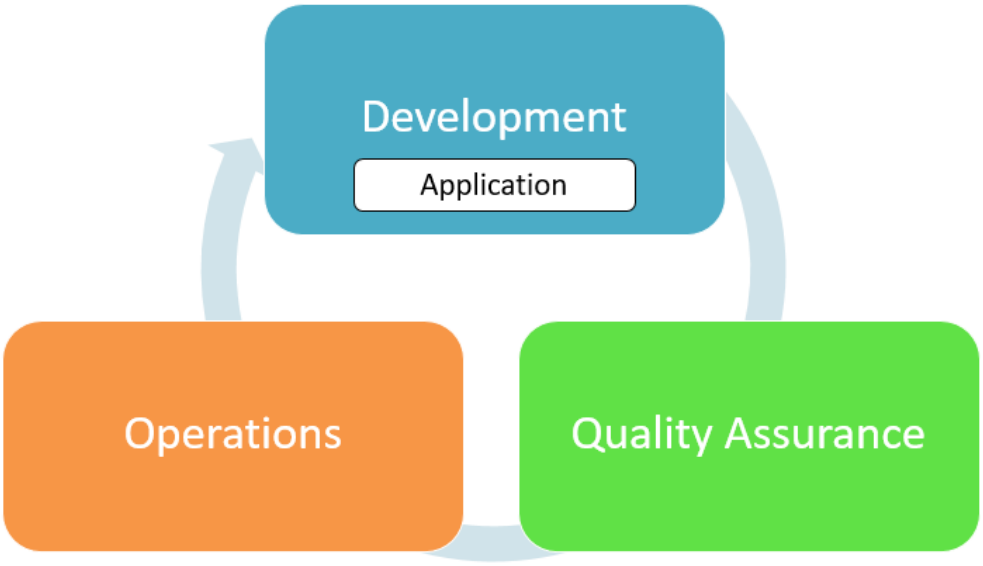

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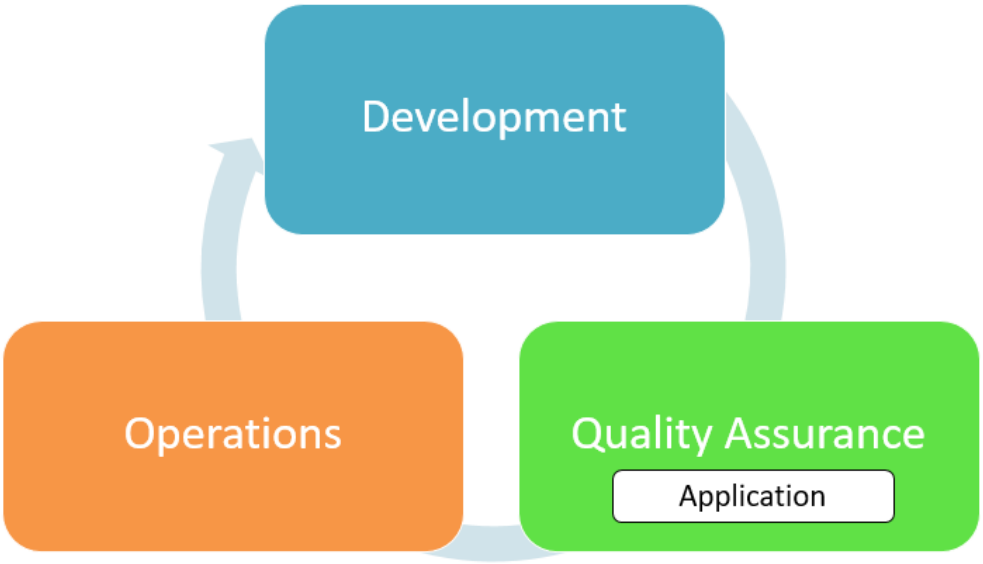

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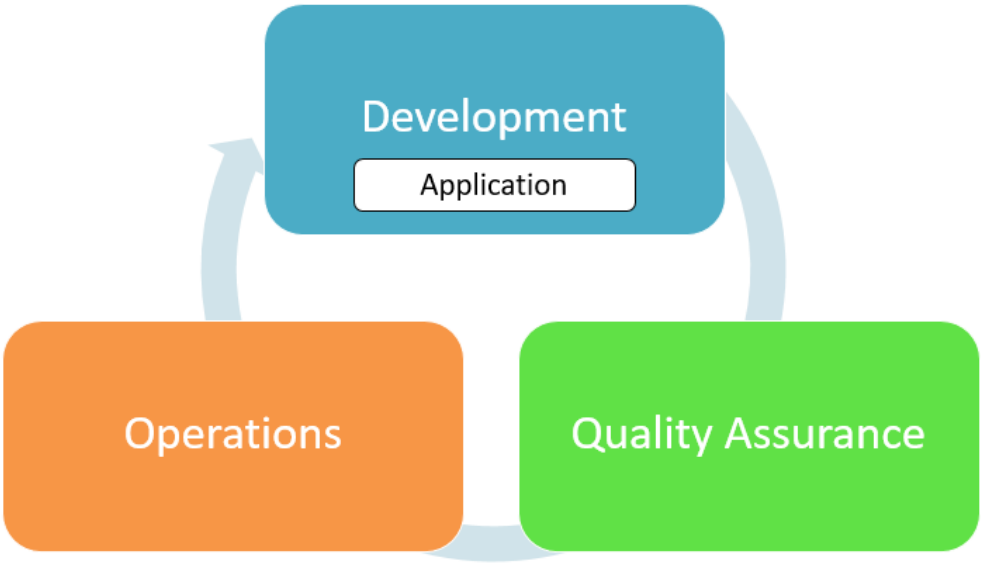

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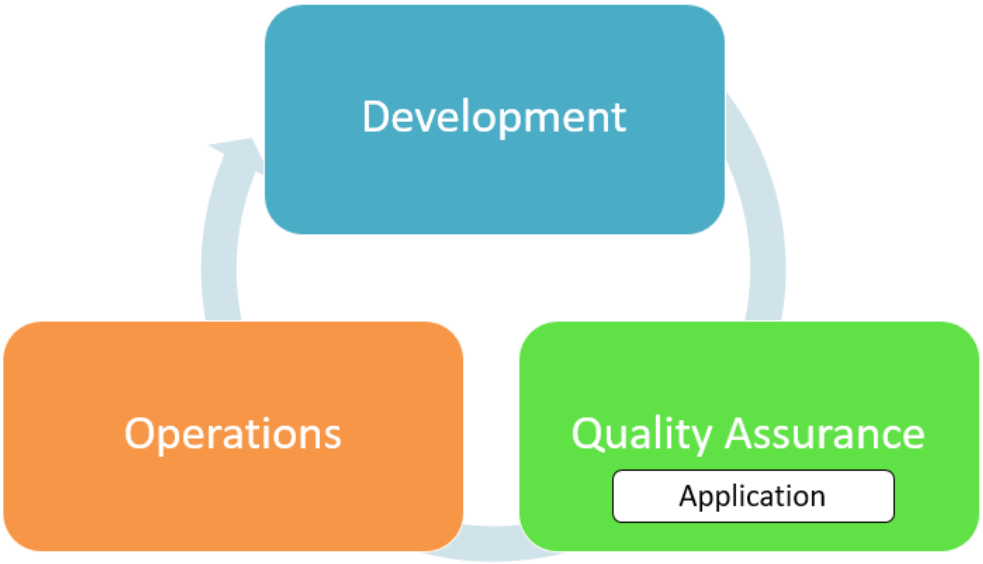

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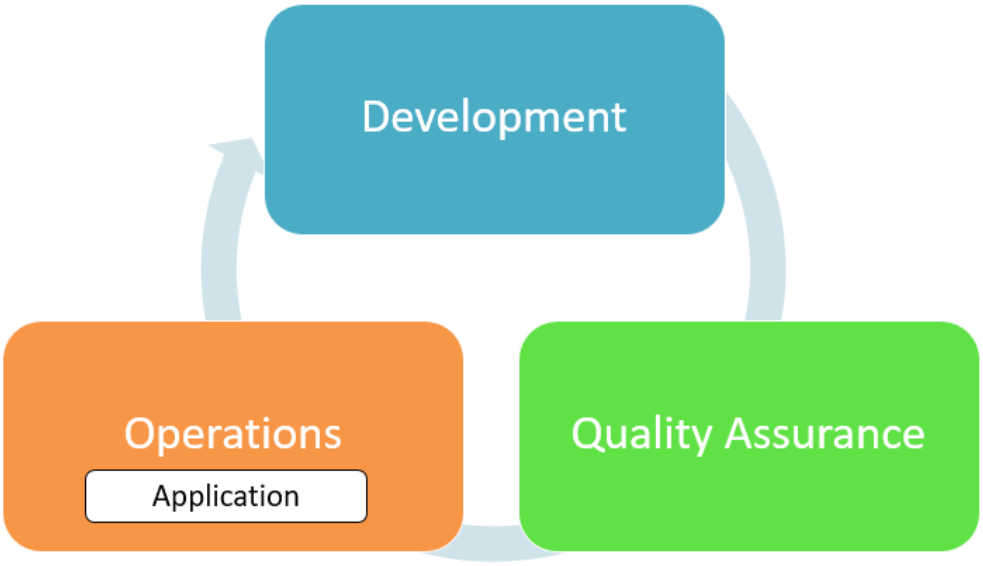

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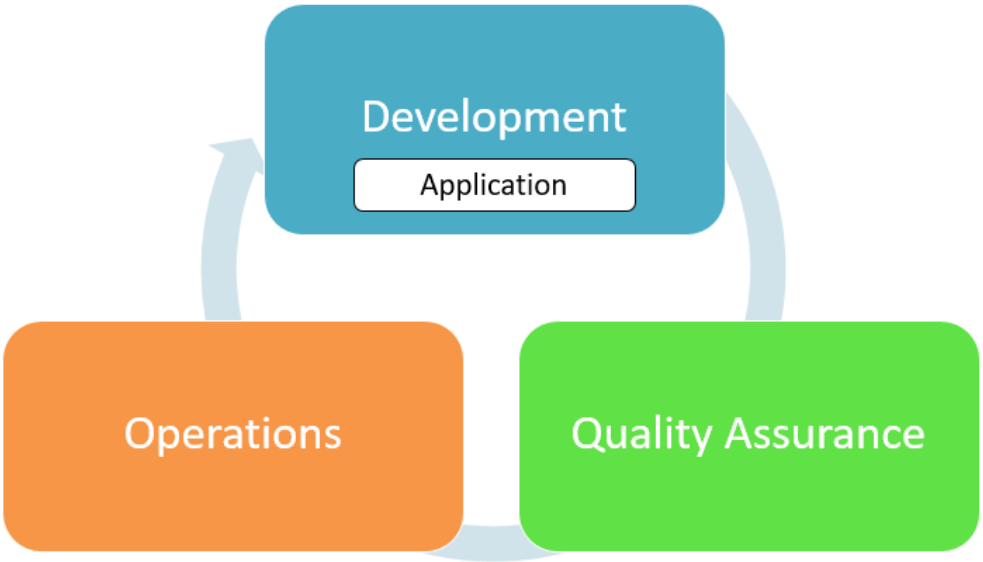
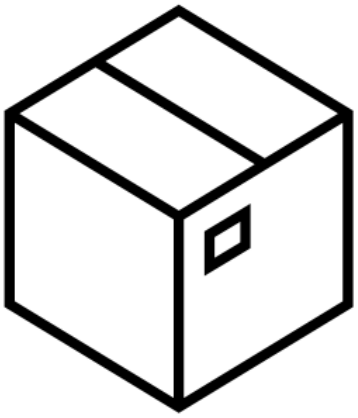


Time to Market



Efficiency

Quality