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# BCS 3263 SOFTWARE QUALITY ASSURANCE

## Chapter One Quality Assurance Basics

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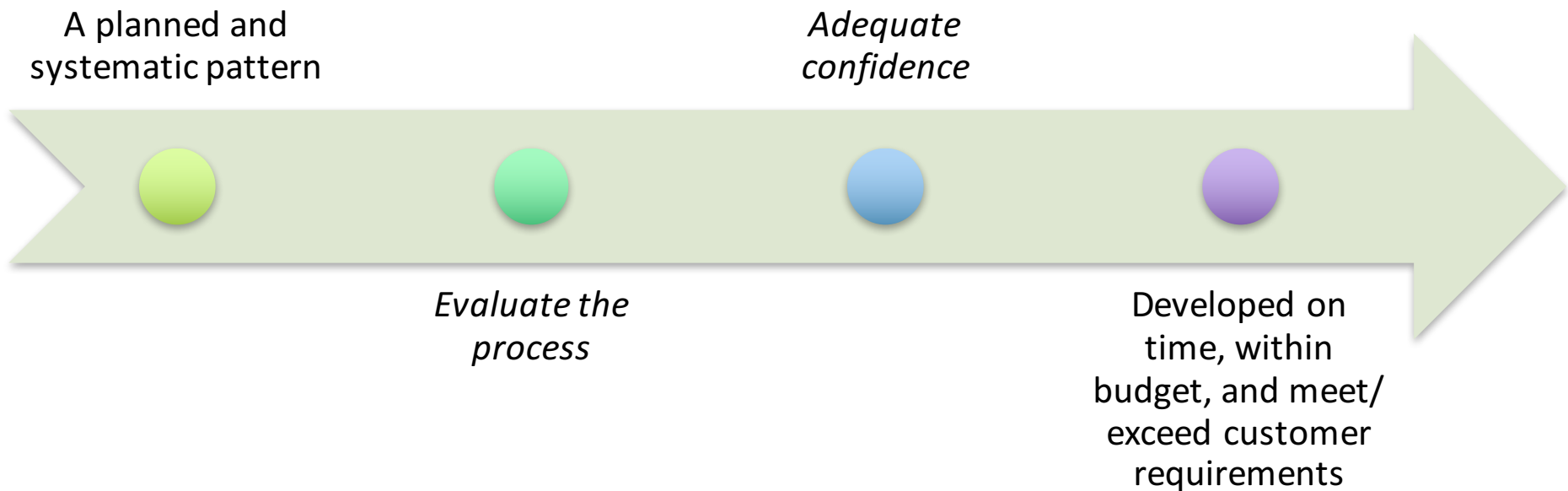


# Chapter Description

- Aims
  - Demonstrate understanding of the main concepts, of Software Quality Assurance (SQA)
- Expected Outcomes
  - Inquire a knowledge of main software quality assurance activities, their tasks, work products and their models
- Other related Information
  - Introduces students to the concept of Software Quality Assurance (SQA) including principles, component, process, models, standards and certification of SQA.
- References
  - Mastering software quality assurance : best practices, tools and techniques for software developers / Murali Chemuturi Chemuturi, Murali, J. Ross Pub. QA76.76.Q35 C44 2011



# What is Software Quality Assurance?



# SQA VS. SQC

## Quality Control

*It is a set of activities* with the purpose of evaluate the quality of products

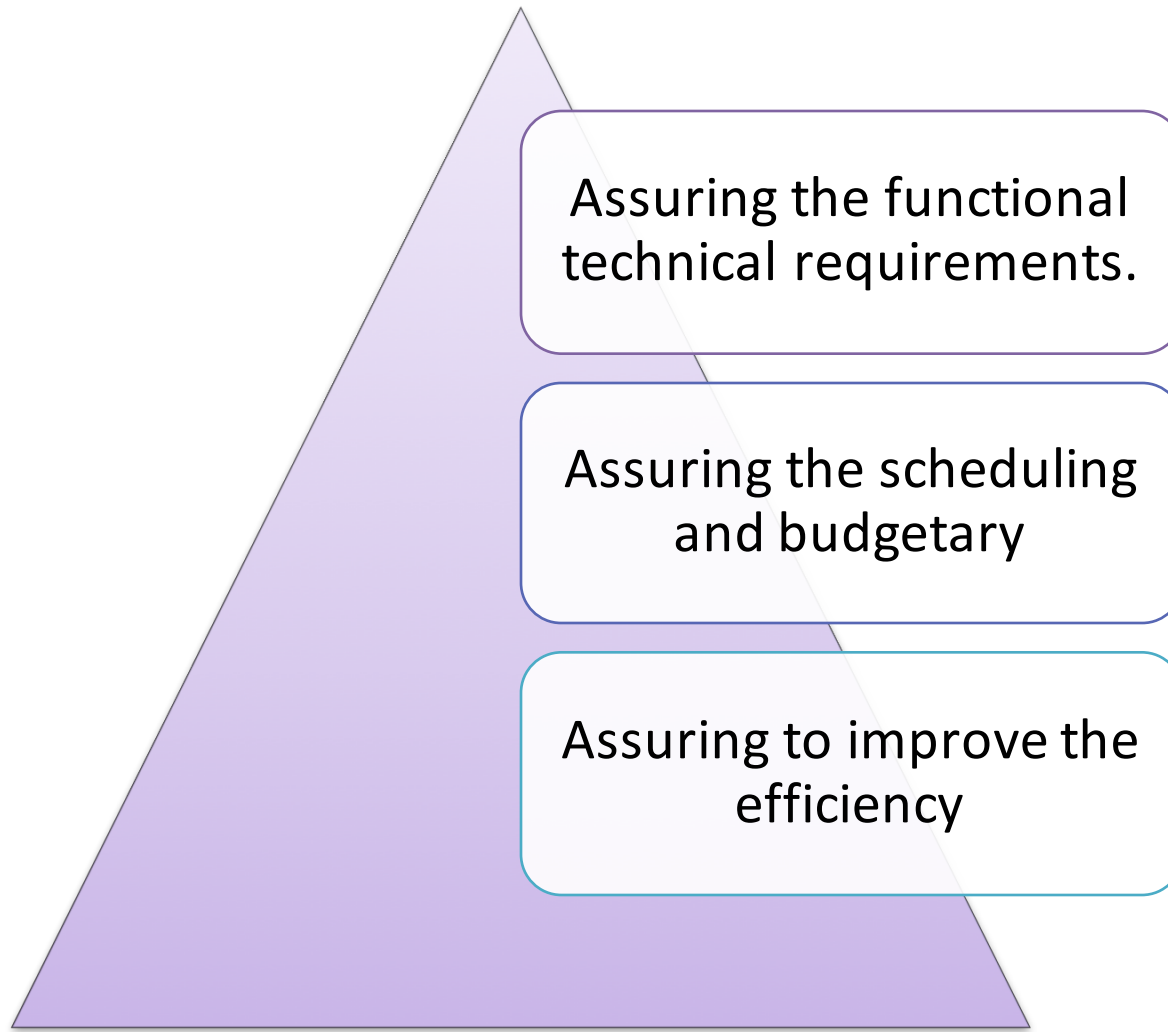
- QC inspections during development & before deployment
- QC sub of QA activities.

## Quality Assurance's

Objective is to minimize the *cost* of guaranteeing quality.

- Activities to detect error and corrected them during the development
- QA basically reduces the rate of products that do not qualify for shipment

# The objectives of SQA activities in software development (process-oriented)



# The objectives of SQA activities in software maintenance (product-oriented)

Assuring the  
functional  
technical  
requirements.

Assuring the  
scheduling  
and budgetary

Assuring to  
improve the  
efficiency

# Conclusion of The Chapter

- Conclusion #1
  - What is SOA?
- Conclusion #2
  - Quality Assurance vs Quality Control
- Conclusion #3
  - Objectives of SQA activities?



Thank you 😊