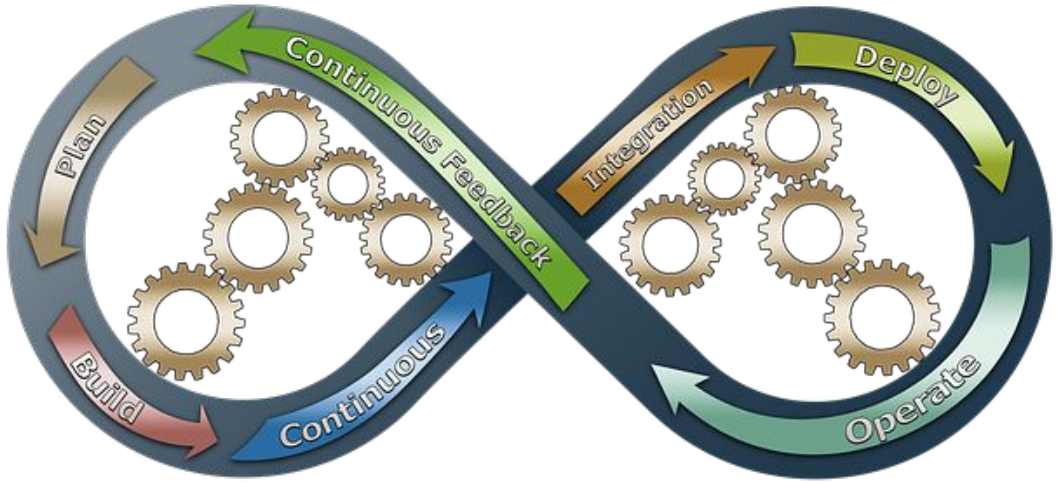

Session 1.3

INTRODUCTION

AN INITIATIVE BY

UNICAL ACADEMY

Introduction

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What will be covered in this session?

- A Business Organization and various functions
- Programs and Projects – from business / users' perspective
- SDLC – V Process model – 2 hours
- Importance of Testing, Quality, and the critical role of a Tester
- Types of Testing – a quick overview

Part 1: The Basics (20 hours)

- Organization& its working
- SDLC & STLC Overview
- Basics of OOPS, Database Java essentials for Testing
- Overview on few Testing roles Job Descriptions

Part 2: Concepts of Testing (30 h)

- Types of Testing
- Common Testing Tools
- Manual Testing – Test cases, Data, Scenarios etc.
- Case-studies and Scenarios

Part 3: Automated Testing (50 h)

- Selenium Overview
- Web Driver, Locators, Elements, and more
- Automation and Runs

Part 4: Hands-on Sessions (100 h)

- Use cases and traceability
- Test data and scenarios
- Day to day work
- Defect prevention, RCA and other value add aspects

Let's go!!!

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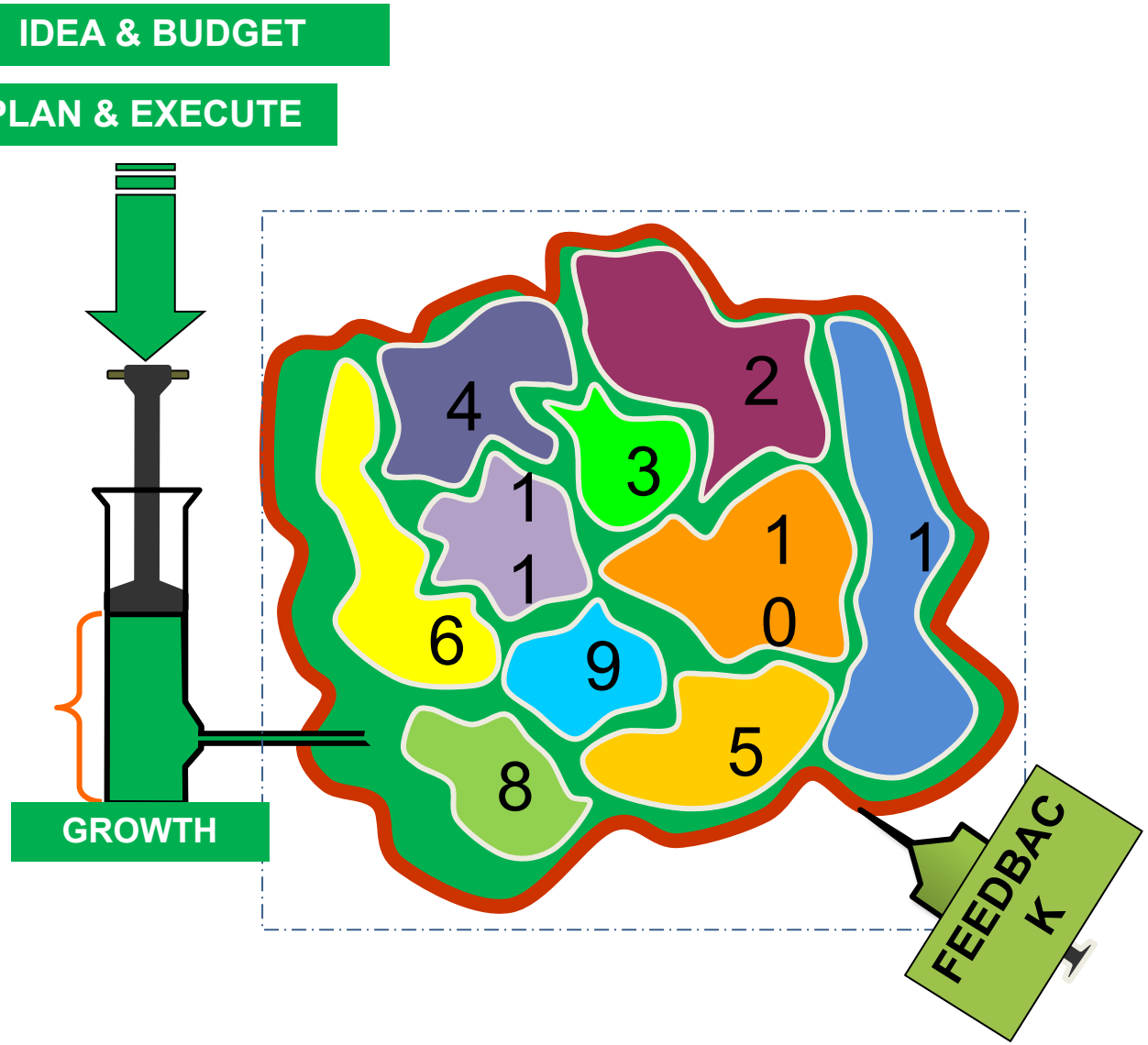
An organization ('our' clients' organizations)

An organization –

- Comes with certain ideas/ concepts
- Allocates certain budget to execute the plan to get the returns based on the idea
- Aims to grow (all the units / division) by constantly assessing the feedback



… and grows

1. Service Offerings
2. Employees
3. Customers
4. Revenue
5. Profits
6. IT Systems
7. Work Optimization
8. Issues & Risks
9. Knowledge
10. Sales
11. Support
12. …

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Programs & Projects in an Organization

Program initiation

- Identify Program Manager
- Define Vision and Targets
- Define Governance Structure (Stakeholders, PMO Setup, Standards)
- Define Program Scope
- Change Management

Program Planning

- Review - Scope, Vision, Targets & Milestones
- Methodology and approach
- Technology
- Risk Analysis
- Identify Projects & Resources
- Training /Competency Enhancement Plans

Execution & Control

- Split into multiple Projects
- Plan & Execute Projects
- Ensure Integration
- Get Customer Feedback
- Monitor Milestones
- Introspection / Reviews / Audits
- Knowledge Management
- Focus on reduce, reuse, & recycle

After Implementation

- Ensure the success
- Aim for –
  - Better
  - Cheaper
  - Faster
  - Larger
  - Steadier
- Ensure transformation based on the business requirements

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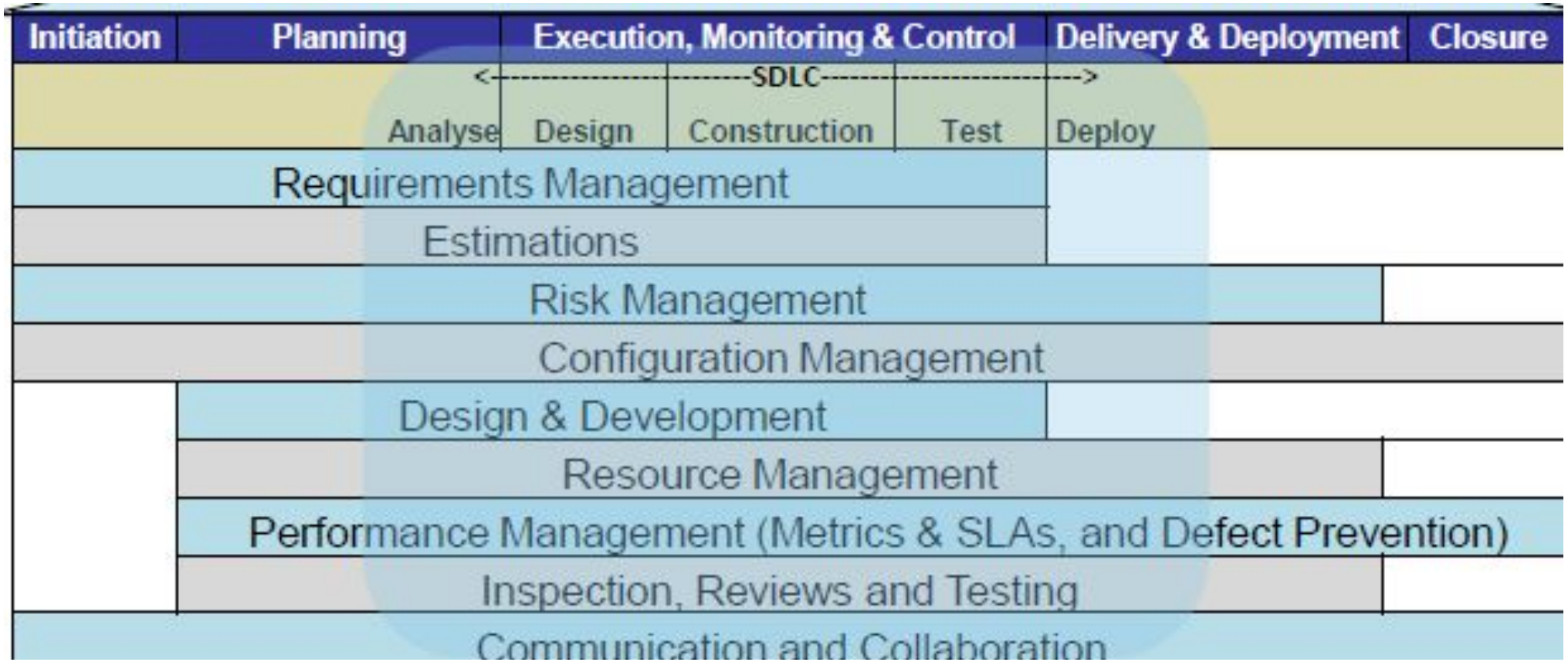
A SDLC Project initiated through a Program



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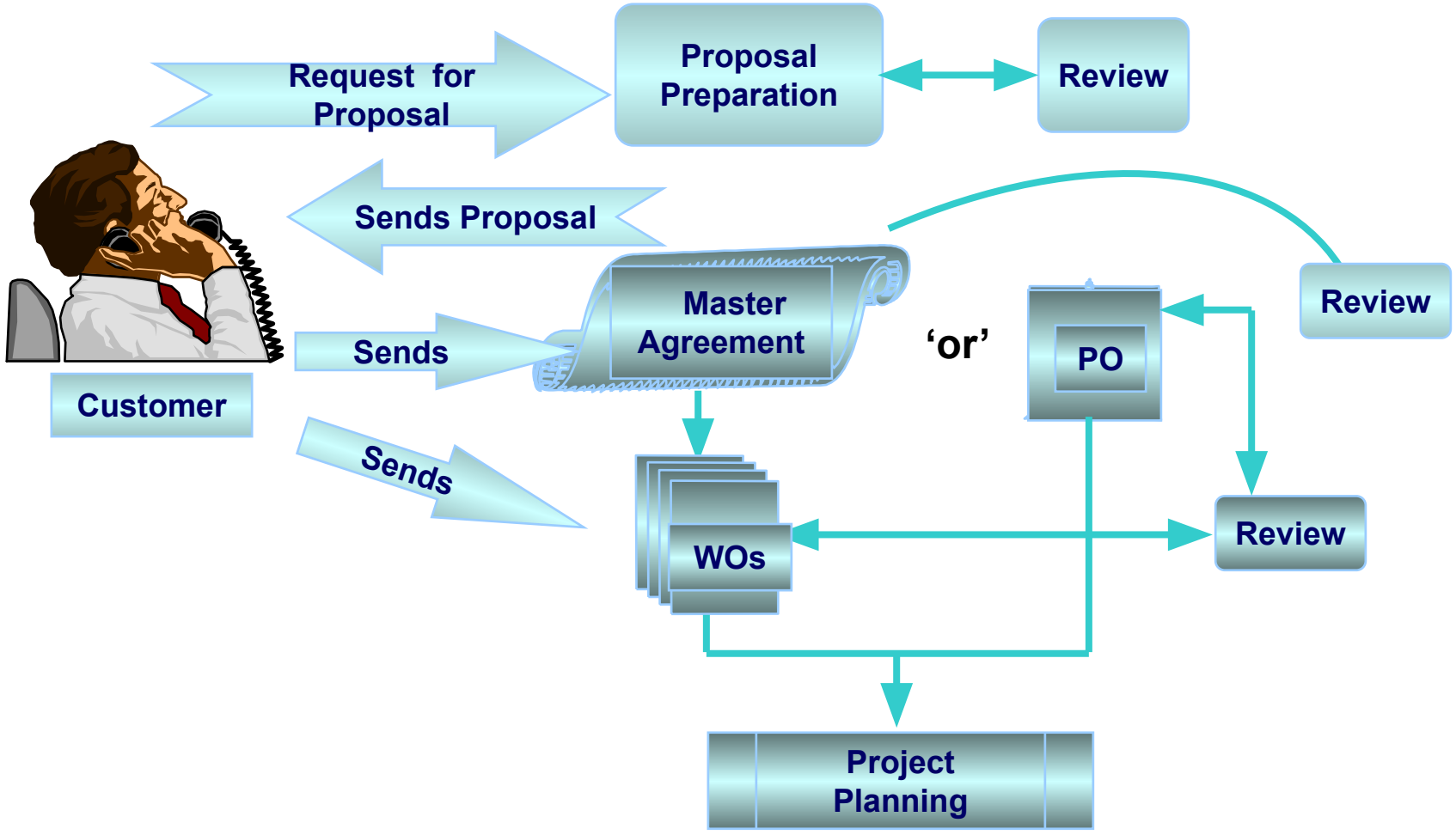
How an IT Project starts?



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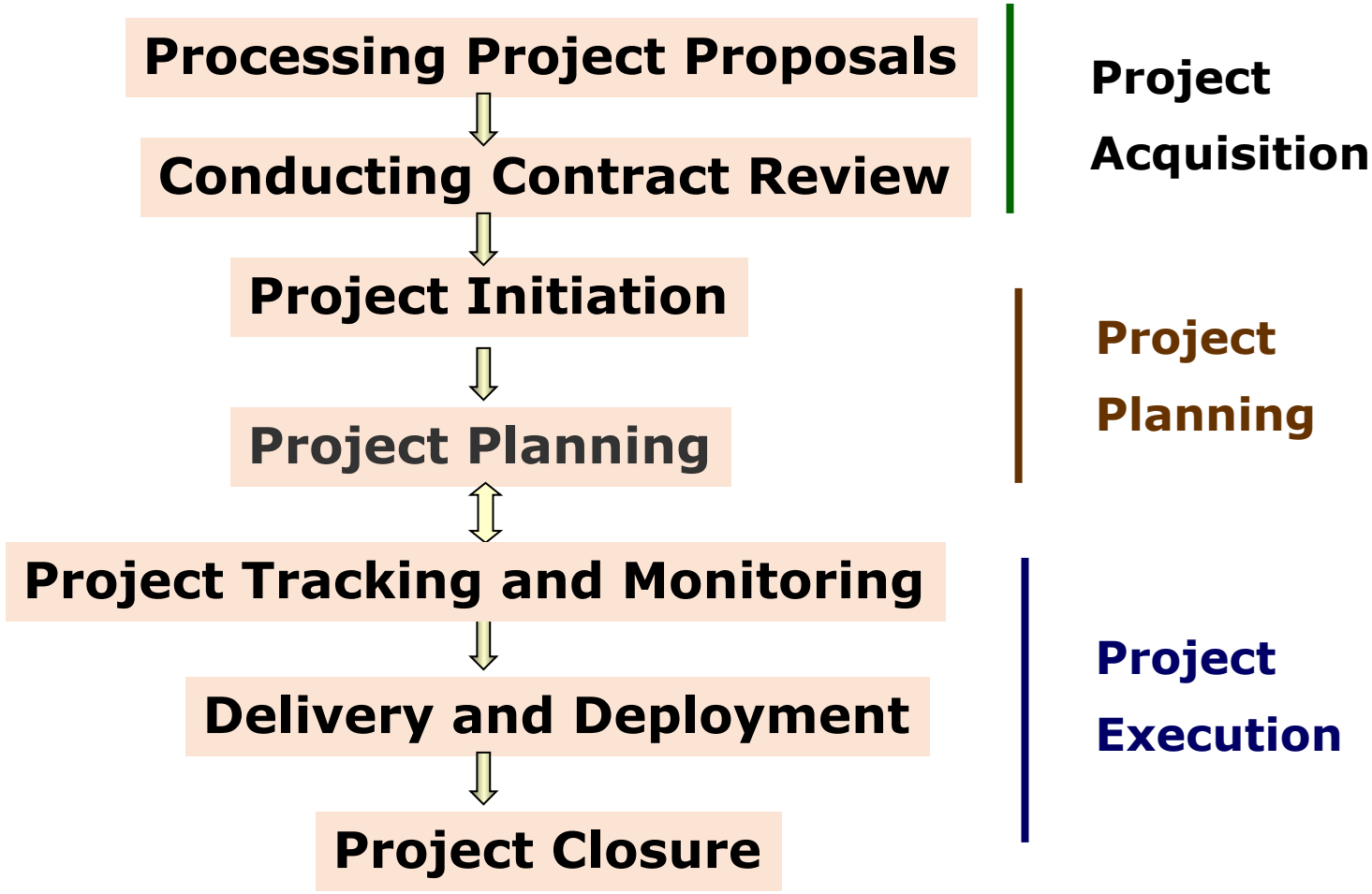
High-level workflow



OK. Why a tester?

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99% Good (3.8 Sigma)		99.99966% Good (6 Sigma)
20,000 lost articles of mail per hour	→	Seven articles of mail lost per hour
Unsafe drinking water for almost 15 minutes each day	→	One unsafe minute every seven months
5,000 incorrect surgical operations per week	→	1.7 incorrect operations per week
Two short or long landings at most major airports each day	→	One short or long landing every five years
200,000 wrong drug prescriptions each year	→	68 wrong prescriptions per year
No electricity for almost seven hours each month	→	One hour without electricity every 34 years

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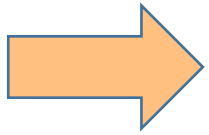
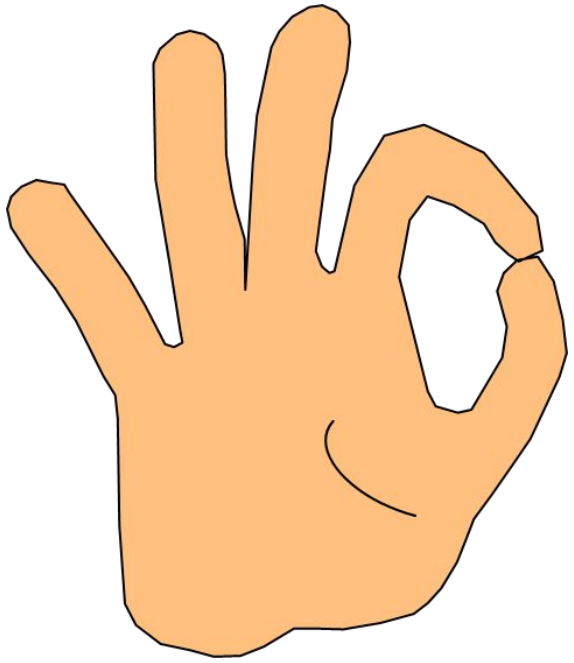
Fine. What is Quality?

We always seek quality sub - consciously





We always ask for –

- **GOOD**
- **BETTER**
- **NICE**
- **BEST**
- **…**

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BTW. How did the experts' define?

- **Degree of excellence** - *Oxford dictionary*
- **Conformance to requirements** - *Phil Crosby*
- **Fitness for purpose** - *Edward Deming*
- **Best for the customer's use and selling price**- *Feigenbaum*
- **The (minimum) loss imparted by the product to society** -*Taguchi*
- **The totality of characteristics of an entity that bear on its ability to satisfy stated or implied needs** - *ISO*

Hmm. Can you simply?

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Look at the Requirement !
What are the suitable Shoes?

The selected Shoes shall

- Meet the requirement
- Fit for the purpose
- Match the budget

Got it. But, how does it work?

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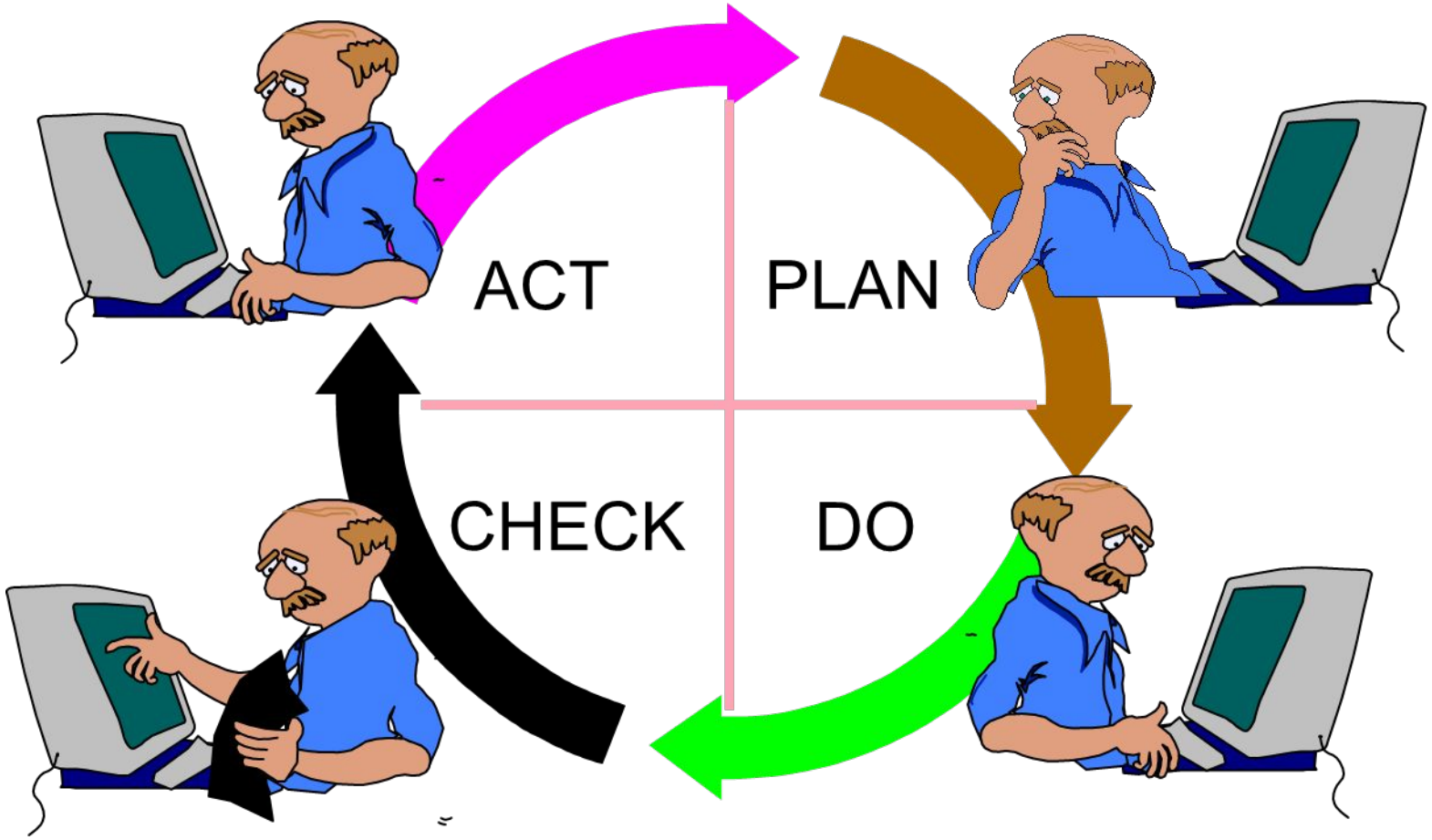

Project team & the work

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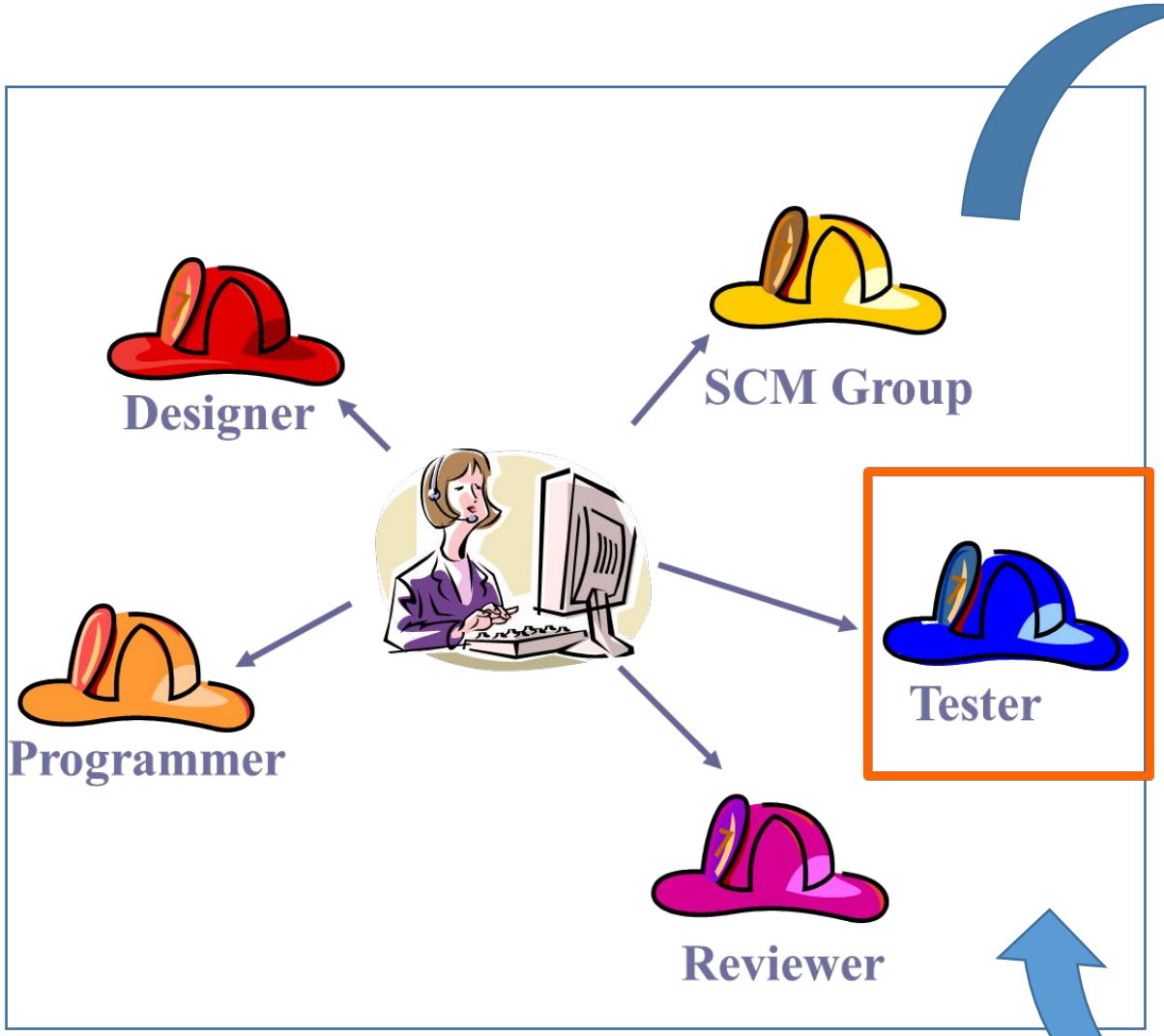

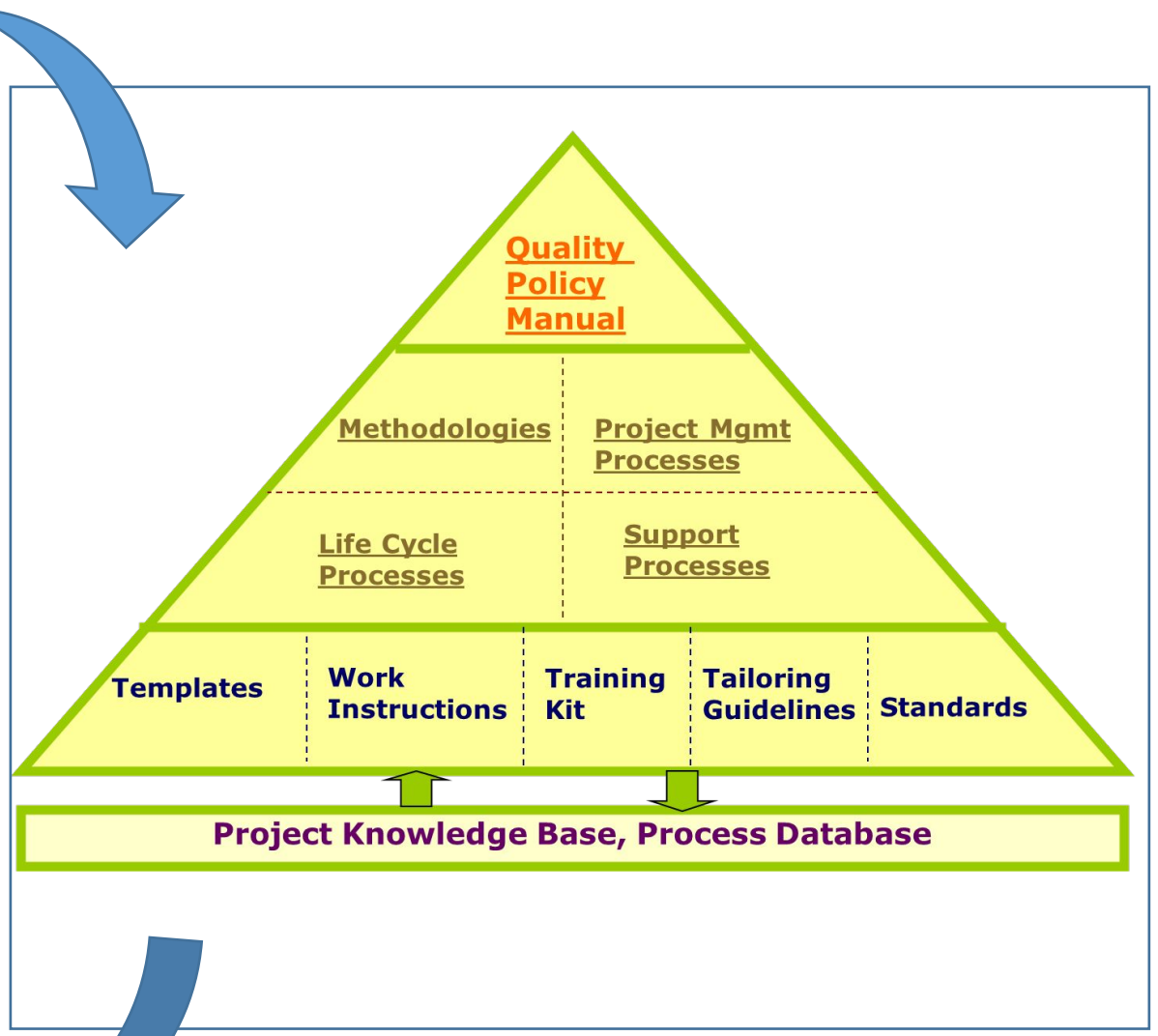

Got it. Let's go !!!

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Blackbox Testing	Incremental Testing	Sanity Testing	Performance Testing
Whitebox Testing	Integration Testing	Regression Testing	Usability Testing
Unit Testing	Functional Testing	Load Testing	Install / Uninstall Testing
System Integration Testing	System Testing	Stress Testing	Recovery Testing
Security Testing	Compatibility Testing	Comparison Testing	Alpha & Beta Testing

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Session Recap