

Session 1.3

INTRODUCTION

AN INITIATIVE BY

UNICAL ACADEMY

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 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

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

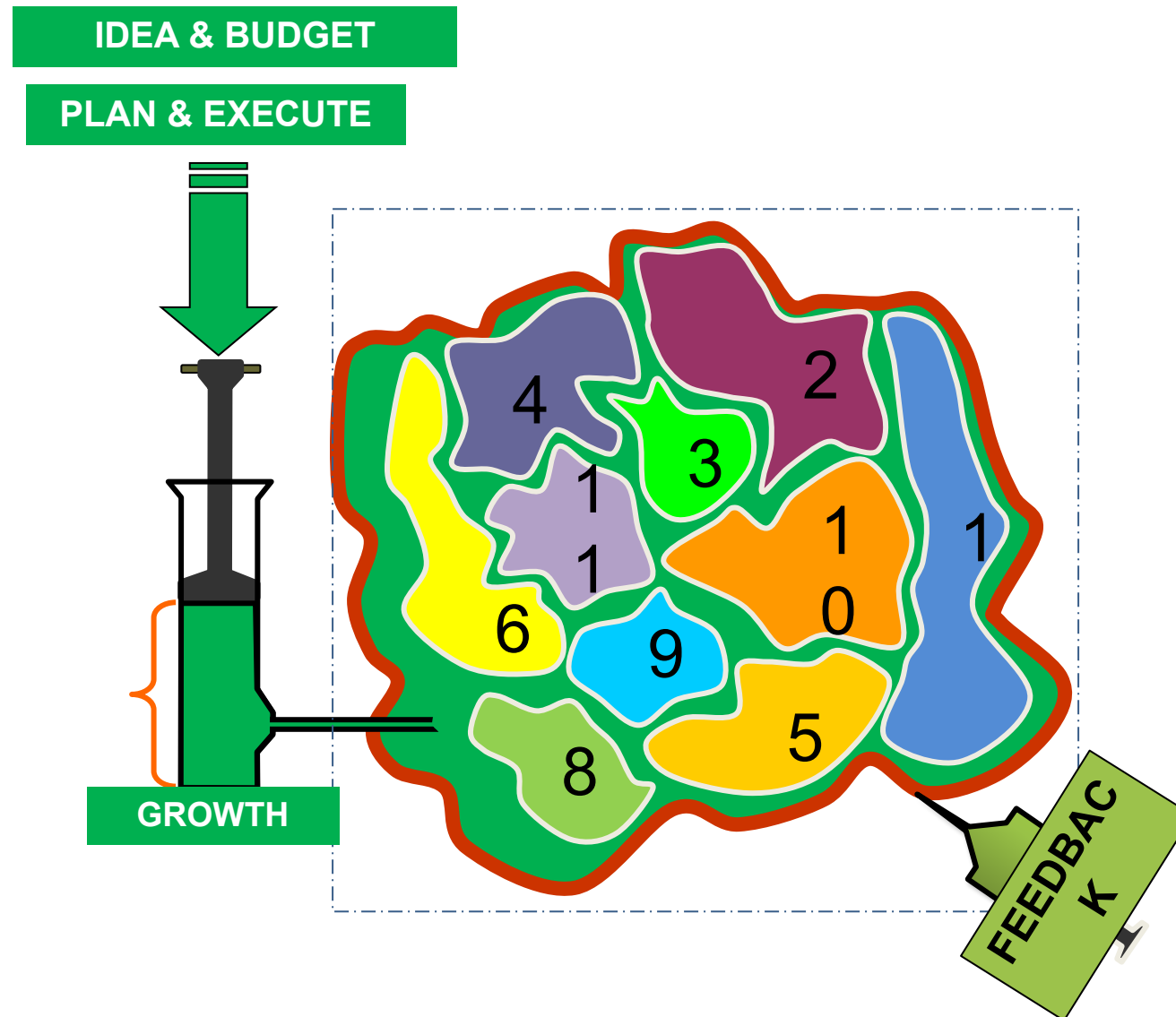


Let's go!!!

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. ...

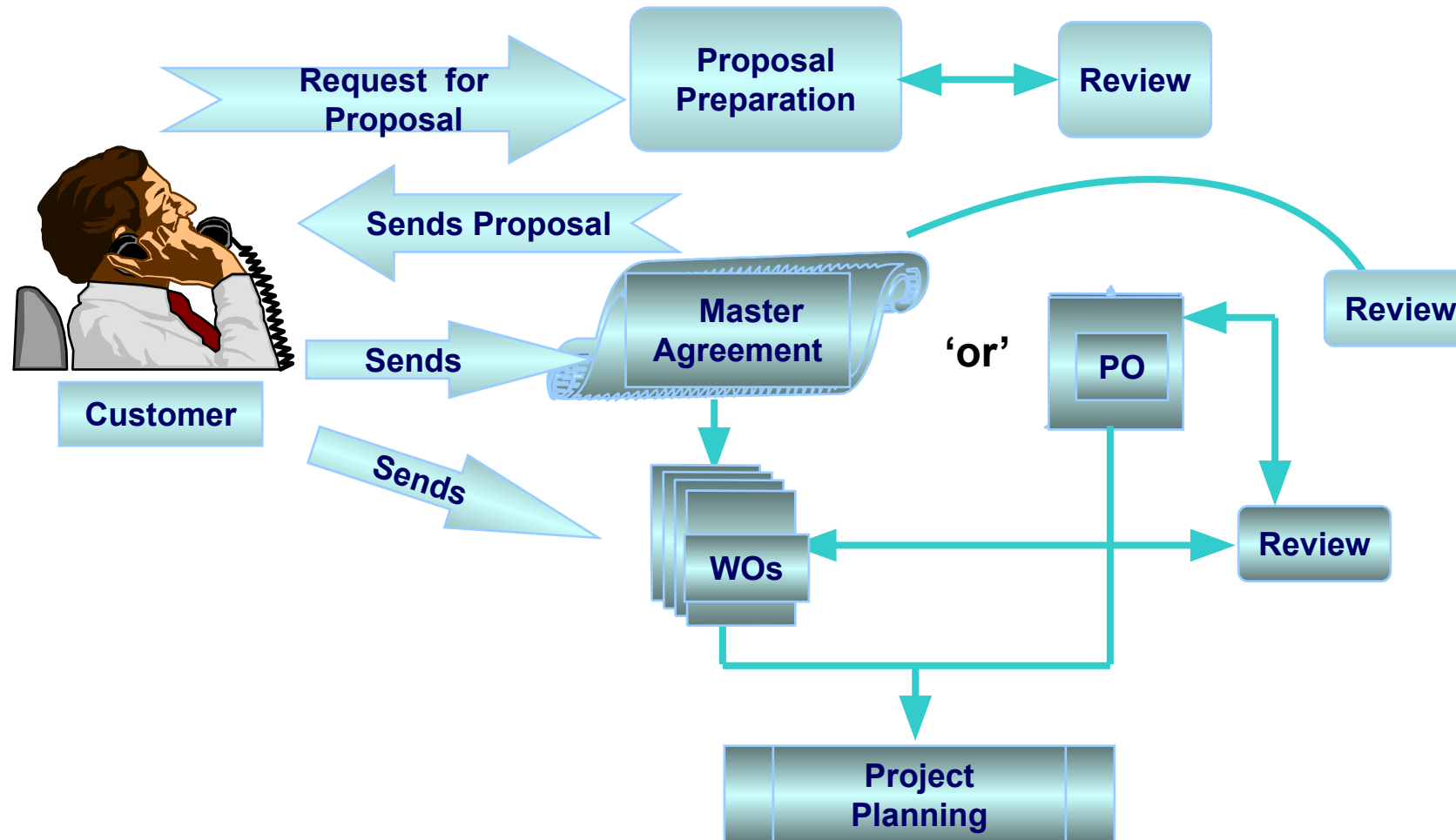
Programs & Projects in an Organization



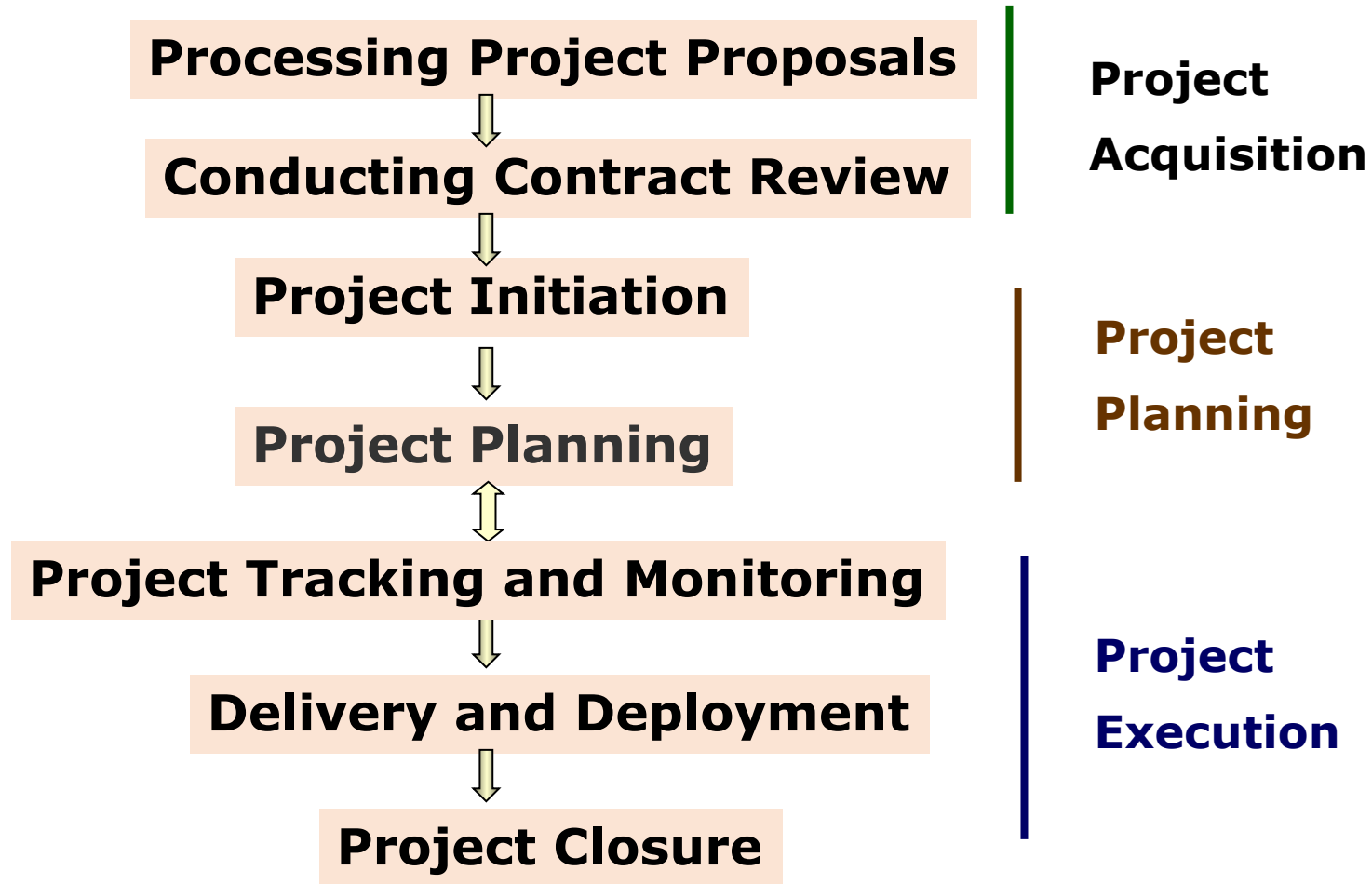
A SDLC Project initiated through a Program

Initiation	Planning	Execution, Monitoring & Control			Delivery & Deployment	Closure
		<div> <div><</div> <div>SDLC</div> <div>></div> </div>				
	Analyse	Design	Construction	Test	Deploy	
	Requirements Management					
	Estimations					
	Risk Management					
	Configuration Management					
	Design & Development					
	Resource Management					
	Performance Management (Metrics & SLAs, and Defect Prevention)					
	Inspection, Reviews and Testing					
	Communication and Collaboration					

How an IT Project starts?



High-level workflow



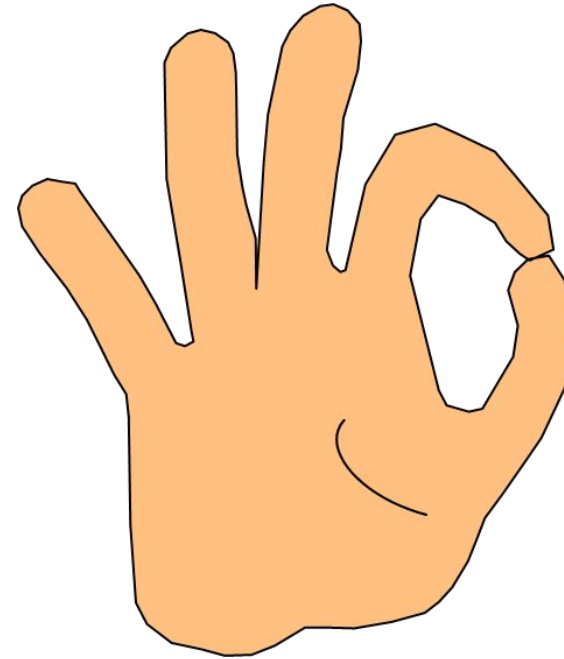
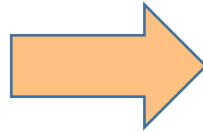
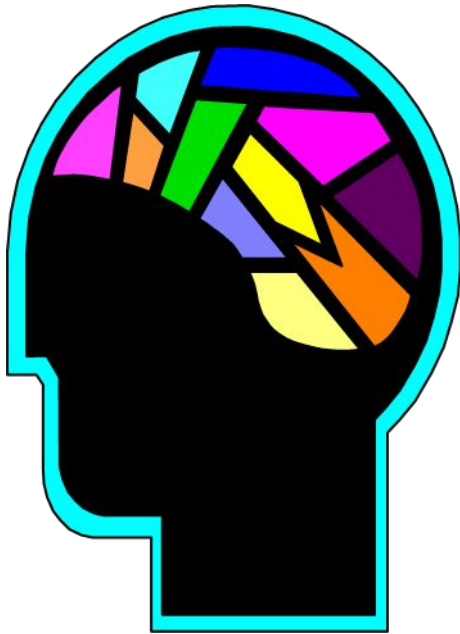
OK. Why a tester?

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

Fine. What is Quality?

**We always seek
quality sub -
consciously**



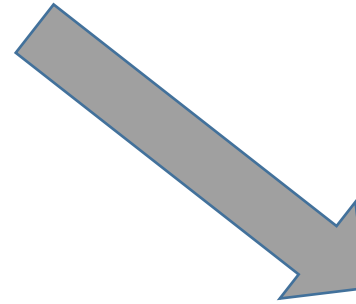
We always ask for –

- **GOOD**
- **BETTER**
- **NICE**
- **BEST**
- ...

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*

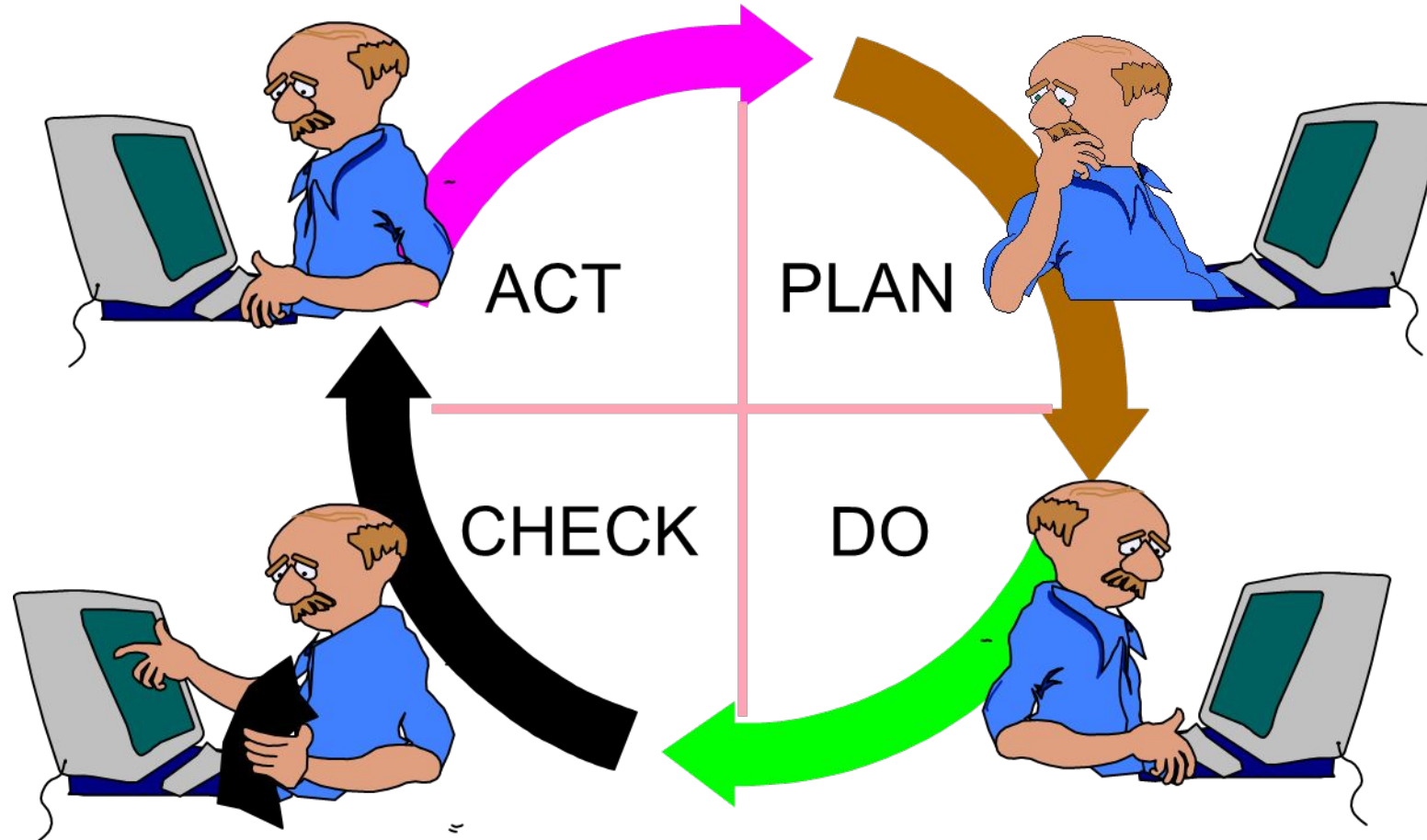
***Look at the Requirement !
What are the suitable Shoes?***

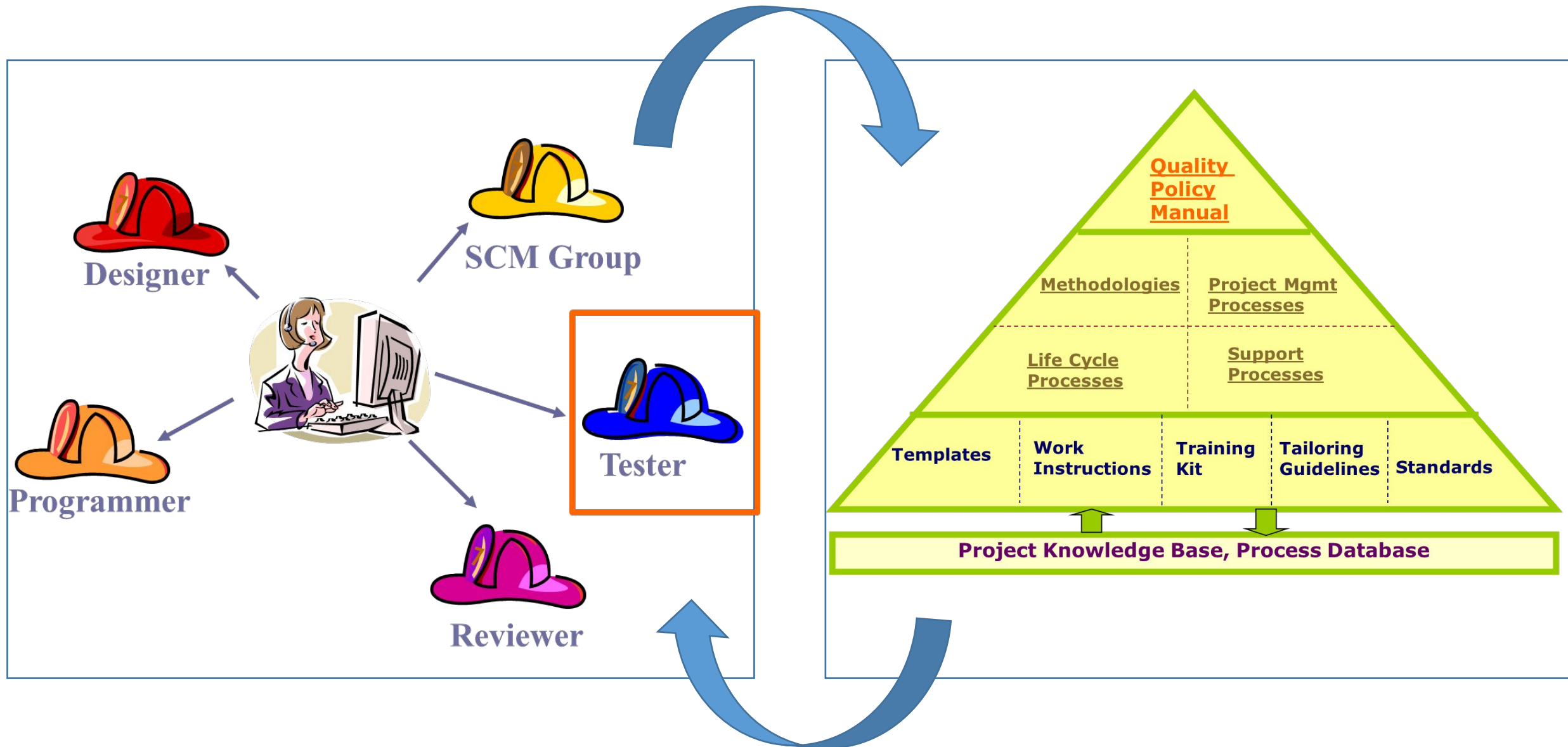


The selected Shoes shall

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

Got it. But, how does it work?





Got it. Let's go !!!

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

Session Recap

