QA Induction for Fresher's • Created By: QA Team • Approved By: PE Head • Date of Release: August 2016 • Version No: 1.0 • Duration: 4 Hrs Capgemini Capgemini Capgemini

Starters



- ➤ 01. Trainer's Introduction
- ➤ 02. Participant's Introduction
 - Name
 - View on Quality

Agenda

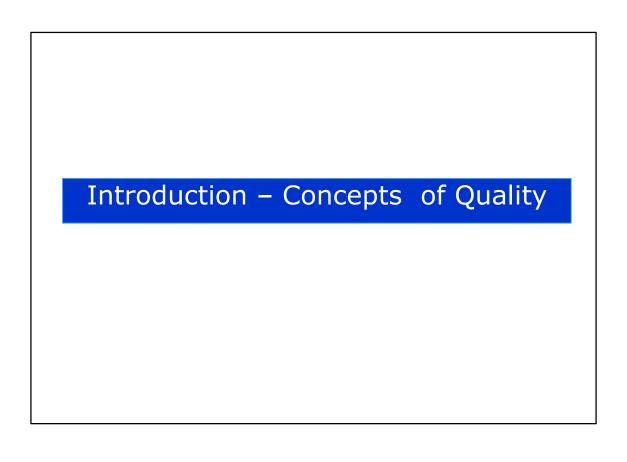


- ➤ Introduction Concepts of Quality
- ➤ QMS, Its Components & Navigation
- ➤ Deliver (Global QMS)
- ➤ KM Portal Best Practice/Sample Records Database
- ➤ Tools Quality Implementation at Capgemini
- ➤ Our Continual Quality Journey...
- ➤ Industry Standards
- ➤ QA Team
- ➤ Walkthrough of Basic Templates
- ➤ Case Studies & Games

Here is the agenda for today's session.

We will be going through some generic terminologies, Quality terminologies, QMS & Its components, QMS Portal, The Global QMS i.e Deliver, The Best practice /sample records database KM Portal, We will look at the Capgemini recommended tools, Capgemini Quality Journey, Industry Standards, India QA Department – Its structure & services, Walkthrough of some basic templates, why to capture efforts, defects etc...

We will also be taking you through some case studies and games related to QMS.



Why Quality is important?





Note: To play this Video, you need to have a flash player installed!

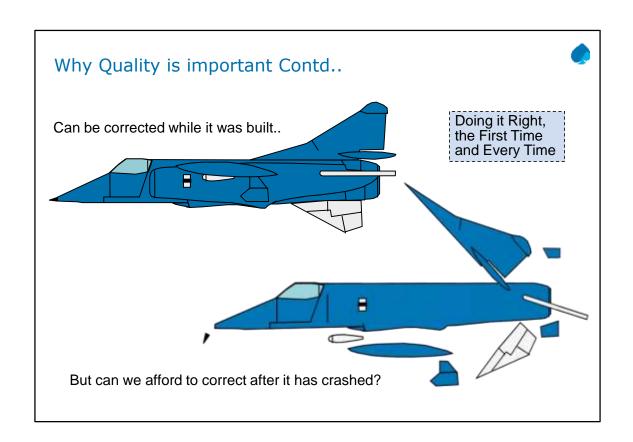
Let us see an example video of Europe & Italy and understand what is the difference between both the countries shown here.

<Play the video>

In this video, Europe has a systematic/disciplined approach in what they are doing. Whereas for Italy, it is not. Hence people of Europe are getting better results in what they are doing than compared to Italy.

So to get a better results, whatever we do, we need to do it in a systematic / disciplined approach.

QMS helps in having the systematic/disciplined approach in the organization.



Note: Explain using the aeroplane example, how important it is to "Doing it Right, The First Time and Every Time".



With an example & we will try to understand how a software application is developed in a software industry.

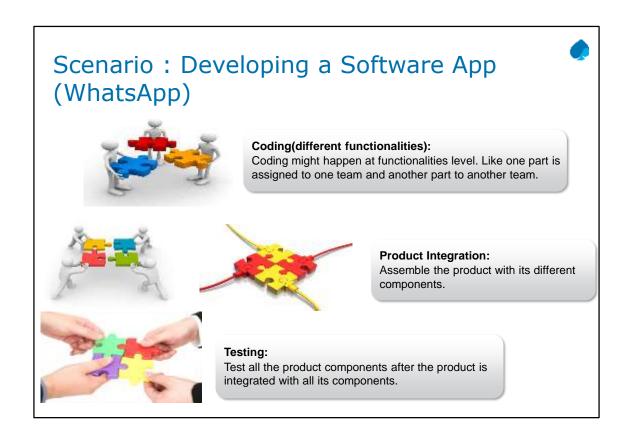
Let us consider we are developing a very familiar mobile application "WhatsApp".

Firstly, we identify & gather all the requirements for the mobile app, what is the need of people.

We analyze all those needs & finalize them.

Then design the application based on the requirements. Here we will identify what technology to be used, how to place the all the functions, security requirements etc..

Once the design is done. We will start with the coding / development of the mobile app.









Deployment:

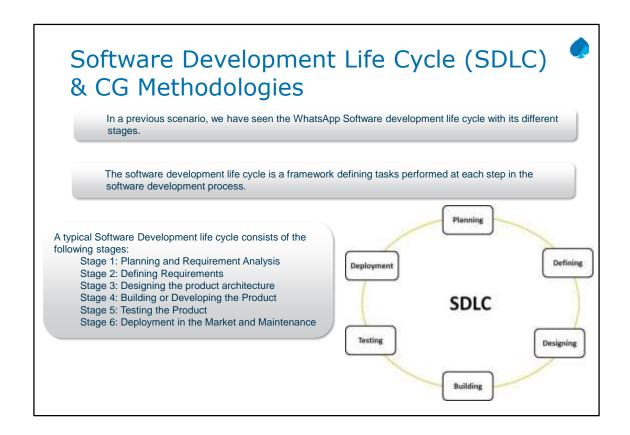
Deploy the Product to Production Environment.



Internet user downloads and uses the software app.

With this scenario, we understood that, there is a sequence of stages involved in the development of a software product.

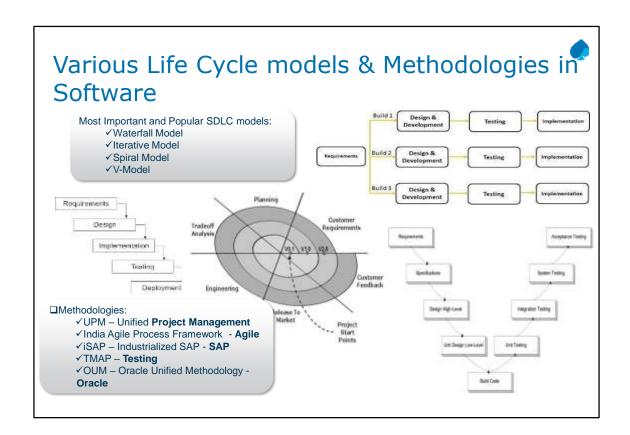
Here, Requirements/Planing, Requirement Analysis/Defining, Design, Coding, Testing, Deployment etc.. these are WhatsApp software development life cycle stages.



Note: Explain the definition of the SDLC and its phases considering the WhatsApp software Development app.

Following are the most important and popular SDLC models followed in the industry:

- ✓ Waterfall Model
- ✓ Iterative Model
- √ Spiral Model
- √ V-Model
- ✓ Big Bang Model



Note: Explain the different SDLC models using the screenshots.



Role Play on SDLC

- ➤ Example Scenarios:
- ➤ OLA App development
- ➤ UBER App development
- ➤ Make My Trip design.

Generic Terminologies



What is a Product?

Software or substance that is manufactured/developed for sale.

Example: A Software app (WhatsApp), Smart Phone. Tennis Ball, A Computer etc..

What is a Defect?

Non-conformance of a product with the specified requirements, or non-fulfillment of user expectations.

Example: WhatsApp messages not getting delivered, Smartphone camera not working,

What is an Issue?

An issue is a problem related to a project/product that is currently occurring.

Example: Developer doesn't have the skill to fix the defect.

What is a Risk?

A risk is an uncertain event or condition that, if it occurs, has a positive or negative impact on a project's objectives. Risks can become issues if they are not addressed properly.

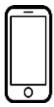
Example: Requirements elicitation is not done properly, might result into more design defects.

Note: Consider the WhatsApp software development scenario to provide the examples to the terminologies.

Scenario: Alex's Smartphone



Alex is in need of a cell phone. He goes to a mobile shop and buys a smart phone. He gets 1 year warranty on his phone. He also understands that the smart phone screen may get scratch while using, so he gets his phone screen covered with a screengaurd. After some days he noticed that the battery is getting discharged very quickly. And after a few more days, he noticed that he is not able to take photos and camera is not working. As he has a warranty on his phone, he takes his phone to the customer service desk and gets it fixed for free of cost. Alex is happy now that his phone is working properly.



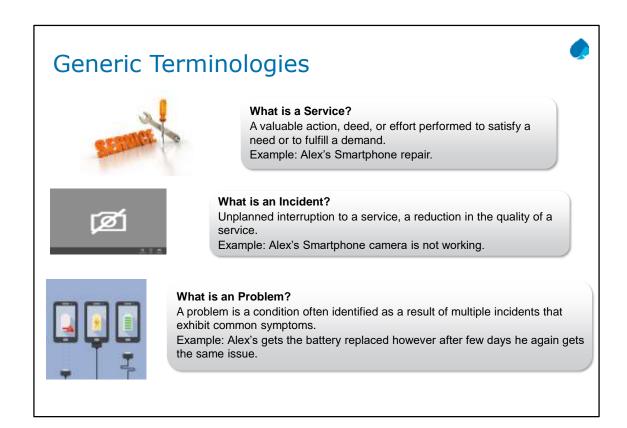




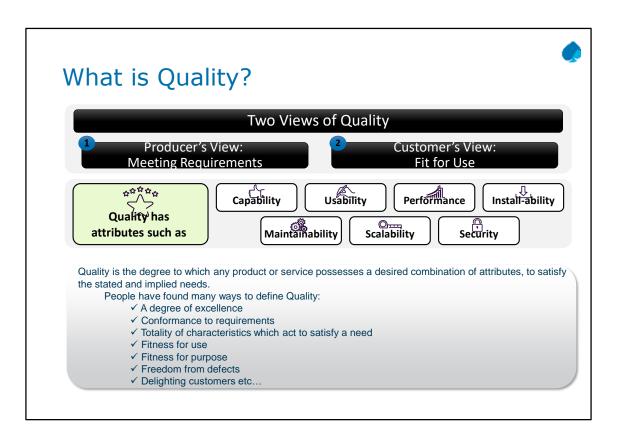








Note: Consider Alex's Smartphone scenario to provide the example to the terminologies.



The entire training revolves around the term Quality. So what does Quality mean?

Different people have different views of quality, resulting in various definitions of the term Quality.

To understand these different views of Quality, let us see a simple scenario.

A varied range of Mobile phones are available in the market today. The producers view of Quality is all about having some basic features inbuilt in the product before they start selling in the market. The quality check involves checking basic characteristics of the product like Performance, Reliability, Scalability, Security, Usability, Capability, Install-ability and Maintainability.

Coming to the customers view of quality, consider a scenario wherein you go to buy a mobile phone. The salesman shows you a branded mobile phone with many features, 5Mbps camera and low price. Someone standing next to you might immediately buy this mobile phone as he wanted a branded mobile phone with basic features and low price. You are still not satisfied with the device as your requirement is to buy a mobile with a high end camera. Hence Customer's view of quality comes into picture here which talks about making the product 'fit for use' as per the customers requirements.

There are various definitions of the term Quality, but to summarize we can say that: Quality is the degree to which any product or service possesses a desired combination of attributes, to satisfy the stated and implied needs.

========Quality Attributes=======

Capability is something which will indicate what is your business and what you are capable of doing to the client. Example: Development of Mobile Software App.

Maintainability is the ability of the system to undergo changes with a degree of ease. Example: Mobile Software App can be enhanced easily to include a new function.

Usability defines how well the application meets the requirements of the user and consumer. **Example:** User needs a calender function in his phone & The mobile app or mobile has the calender inbuilt.

Performance is an indication of the responsiveness of a system to execute any action within a given time interval. **Example:** Phone Battery performance, Internet speed etc..

Scalability is ability of a system to either handle increases in load without impact on the performance of the system, or the ability to be readily enlarged.

Security is the capability of a system to prevent malicious or accidental actions outside of the designed usage, and to prevent disclosure or loss of information.

Example: Mobile virus prevention softwares. Damage protection glasses etc..

Benefits of Quality





Organization Benefits



□Benefits of quality to clients

- ✓Improved services
 ✓Improved choices
- ✓Expectations met or exceeded ✓Client oriented employees
- √ Friendlier atmosphere

□Benefits of quality to employees

- ✓ Pride in services delivered
- ✓ Job satisfaction
- ✓Improved communications
- ✓Streamlined work processes
- ✓ Happier clients
- ✓ Strong client relationships

☐Benefits of quality to the organization

- ✓Improved/expanded services
- √Client oriented employees
- ✓ Improved client relations
- ✓Improved community relations = better political relations
- ✓ Lower costs/cost contained
- ✓Improved funding



Quality Terminologies

≻What is Quality Control?

Quality control (QC) is a procedure or set of procedures intended to ensure that a product or performed service adheres to a defined set of quality criteria or meets the requirements of the client or customer.

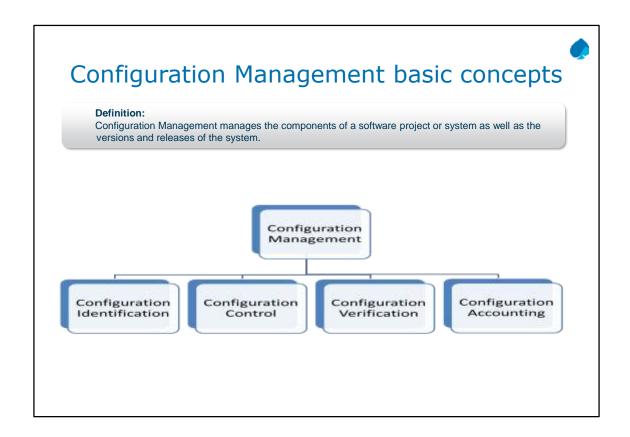
➤ What is Quality Assurance?

It is the activity of providing evidence needed to establish confidence among all concerned, that quality-related activities are being performed effectively.

➢ Quality Assurance Is Not Quality Control

Quality Assurance makes sure you are doing the right things, the right way. **Quality Control** makes sure the results of what you've done are what you expected.

Example: Introducing the testing phase in a process is Quality Assurance, whereas performing the actual testing is a Quality Control.



Note: Let us see what is configuration management and the purpose of it.

The purpose of CM is to establish and maintain the integrity of work products using configuration identification, configuration control, configuration status accounting, and configuration audits.

CM manages the components of a software project along with its versions control, releases etc...

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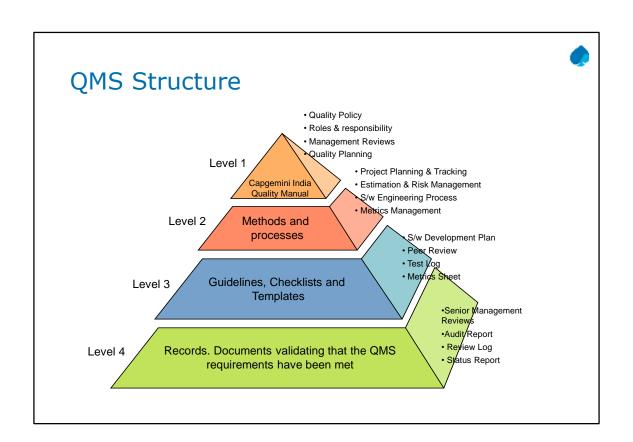


QMS Path: http://qa.in.capgemini.com

Capgemini India Quality Management System (QMS) provides the systematic approach to meet customer requirements resulting into the desired service or product

It consists of a set of policies, procedures, guidelines, tools, templates and checklists, required for planning and execution of product or service in an organization

It integrates the various internal processes within the organization and intends to provide a process approach for project execution





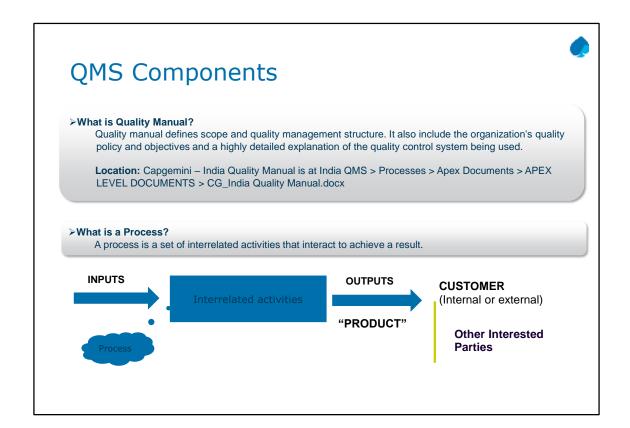
Capgemini's Quality and Service Management Policy is 'to always meet or exceed Client Expectations.'

To be in line with the policy, measuring Customer Satisfaction is a key. At Capgemini we measure Customer's Satisfaction in the form of OTACE which stands for "On Time & At/ Above Client's Expectation". Client is responsible for providing this rating on a scale of 1 to 5, 1 being the lowest rating.

OTACE rating has to be published based on the agreed criteria with the Customer.

Organizational Baseline for OTACE is 3.5 and projects are expected to get a rating of 3.5 or above. OTACE Action Plan is to be prepared in case there are any improvement suggestions from customer for any of the agreed criteria, or in case of lower rating.

E -Val is a Web based tool used to record and report OTACE information across Capgemini India.



Note:

Talk about what is quality manual, what it contains and where do we find the Capgemini quality manual.

Talk about what is a process using the diagram. Process is a set of interrelated activities happing with certain inputs to it to get a desirable output. Output may be for the internal customer or external customer or any other interested party.

QMS Components Continued...







≻What is a Procedure?

A fixed, step-by-step sequence of activities or course of action that must be followed in the same order to correctly perform a task.

Example: Procedure for conducting a training program.

➤What are Tools?

Tools are a set of basic components and accessories that help software development process more efficient.

Example: Project Management Tools, Testing Tools, Defect Tracking Tools etc..13

QMS Components Continued...







➤ What are Roles & Responsibilities?

Roles - Roles are the positions team members assume or the parts that they play in a particular operation or

Responsibilities - Responsibilities are the specific tasks or duties that members are expected to complete as a function of their roles.

Capgemini India Roles & Responsibilities can be found at QMS > Processes > Apex Documents > APEX LEVEL DOCUMENTS > CG_Org Roles_Responsibilities.doc **Example:** Project Manager – Project Management Activities for the project.

➤What is a Guideline?

Guidelines typically provide additional optional information on specific subjects.

QMS Components Continued...





➤ What is a Template?

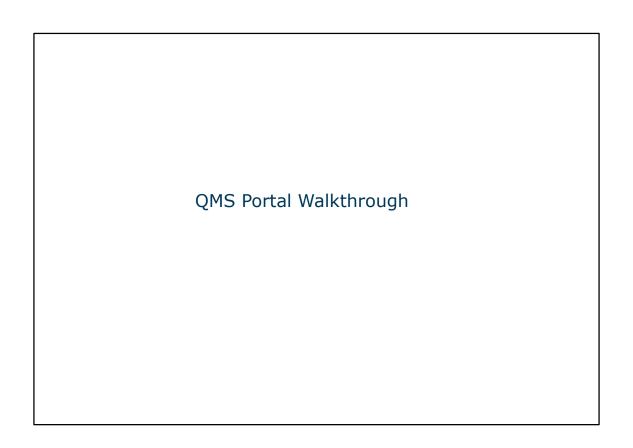
It supports work products by providing a pre-defined structure for creating the work product.

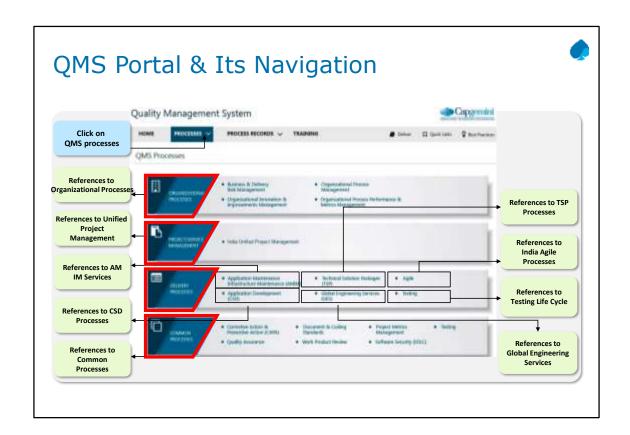
Example: A Test Case Template will help to create a Test Case

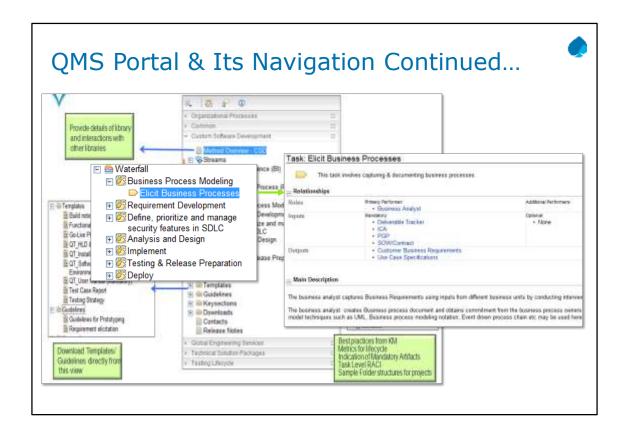
➤ What is a Checklist?

Checklists identify a series of items those need to be completed or verified.
Checklists are often used in reviews such as work product inspections.

Example: Code Review Checklist helps in performing a code review.







Now we will come back to the navigation of each process Library.

The process Library is a comprehensive documents repository consisting of work flow built processes, roles, templates, etc. The following are various components in each of the process libraries.

All process libraries have Method overview section which gives a high level overview of the entire process.

All processes are listed under streams, which are in turn mapped to different activities. Activities are then split into tasks, wherein each task consists of:

- Detailed work instructions
- Primary and Secondary Roles
- Inputs and outputs
- -Templates and guidelines
- -Tool Mentors

Different views are provided and templates/ guidelines can be directly downloaded from template view.

Key sections are covered in the end for capturing process wise metrics and links to best practices from KM portal.

Downloads section consists of Mandatory artifacts, Task Level RACI, Sample Folder Structures for projects and Portal HTML method to download the library.

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Deliver





- DELIVER is the Capgemini Global Methods Environment
- DELIVER provides frameworks, methods, techniques and tools for managing and delivering all types of programs, projects and services
- It consists of processes for business development, architecture design , application development, package implementation and support services
- The DELIVER method to manage projects is called Unified Project Management (UPM), and method to manage services is called Unified Service Management (USM)
- India QMS is built based on Deliver methods and is aligned to group processes.

Agenda

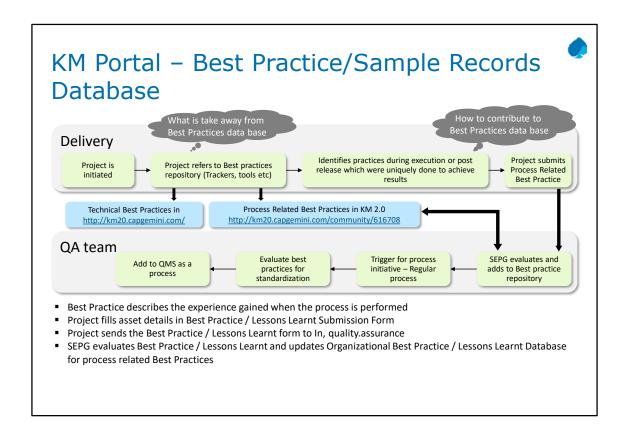


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A Best Practice is a technique or methodology which is a take away from a project during its execution. A Best Practice can be reused by other projects to achieve similar benefits.

All Best Practices are available for reference in KM Portal which can be referred by projects during project planning and execution phases.

Projects can also submit technical and process related Best Practices in KM Portal which can act as a reference to other similar projects. The submitted Best Practices related to process, are evaluated by QA team and the accepted best practices gets added to Organizational Best practices database.

The path for KM portal is as displayed on screen.

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Capgemini Recommend Tools are listed in the tabular format

Streams	Capgemini Recommended tools
01 - Project Governance	N2K, Clarity, Team Forge, QPUT,DNA Report, CI portal, A3s
02 - Planning And Financial Management	GREAT, N2K, Clarity,openWorkBench,IN_TimeCard,,Autoprome,Pricing Too
03 - Resource Management	Clarity,IN_PACE, In_IRW,GRCWEB
04 - Scope And Requirements Management	Team Forge, Requisite Pro
05 - Change Control	Clarity,TeamForge
06 - Risk Management	Clarity,TeamForge,PMTS(Risk Assessment Tool)
07 - Issue Management	Clarity,TeamForge
08 - Client Relationship Management	E-Val
09 - Supplier And Procurement Management	Clarity,TeamForge
10 - Communication Management	Clarity,GIMS+,IN_Visual Management Boards,LVIS , VVM Dashboard,A3s
11 - Infrastructure Management	Clarity,GFS
12 - Configuration Management	Subversion, Sharepoint
13 - Quality Management	Clarity, Rational Functional Tester and Test Manager, IN_CAST, HP Quality Center, CAST, PMTS, Predictive Analysis
14 - Knowledge Management	Team Forge, KM 2.0,Sharepoint

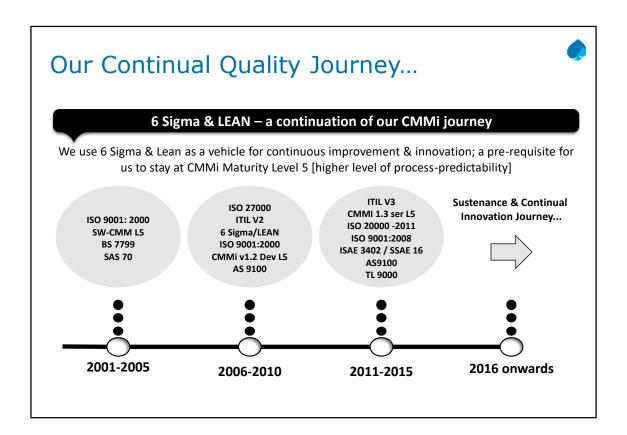
Here is the list of Capgemini Recommended Tools which is covered under Infrastructure Management of UPM. Necessary approvals are required for any project specific tailoring on tools .



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The slide shows the quality journey of Cappemini since its Quality Inception in 2001.

QMS is compliant to CMMI Services L5, ITIL V3, AS 9100, TL 9000, ISO 20K and ISO 9K, etc.

Along with these certifications – Capgemini adapts 6 Sigma & Lean as continual improvement methodology.

We will understand each of these standards, models and certifications in brief, in the coming slides.



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This slide talks about the different industry standards available and a brief on them.





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QA Department

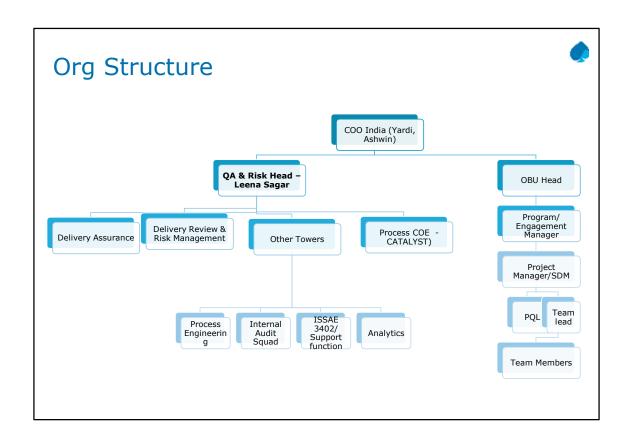


Quality Assurance Department

quality.assurance.in@capgemini.com

We facilitate & Provide on-going support:

Implementation of Quality Assurance standard in all spheres of activity throughout the organization viz. projects and functions.





Process facilitation is an important ingredient to the success of a project. There is always a need to guide the project teams to follow the right process. Not just any process - something that helps them achieve the fundamental objectives.

Myth – I will be guided by a process analyst for ALL my process activities

Mythbuster – Busted !! – you have a PQL role in your project who is adequately trained to support the project and project team members on Quality Assurance activities.

QA Services - Audit



Audit Day

Quality Team conducts the Audits to ensure the project compliance to the organizational set policies and processes.

Before audit



Process assessments will not be a satisfactory substitute for software assessment. Audits are carried out typically to verify the conformance of the process followed while executing a project. An audit report typically helps the project team understand the inherent gaps in the process followed in the project and gives an opportunity to improve on the same.

Myth – my senior management will have sore eyes on me if my project has non-conformance Mythbuster – Busted !! – There is adequate cooperation from senior management and QA team to help you bring your project on track to adhere process



We'll be fooling ourselves if we are expecting a clear road ahead of us !! Risks are part of project delivery. The way to mitigate and manage a risk differs from situation to situation. One solution does not apply for all.

Risk Review Criteria:

QA – i.e. offshore FTE ≥ 8; excluding Staff Aug./Capacity Cushion projects.

SBU/TLI delivery dashboards, CEO report (projects in Red/Amber from QA perspective), OTACE scores, self-assessment RATs, review requests from PMs/EMs/higher management – these are the main inputs for prioritizing and scheduling risk review.

Myth – There is no easy way to foresee project related risks! Mythbuster – True. But we are always there to help!!

QA Services - Metrics



Less numbers and proactive metrics are only to save business risk. Expectation of quality models mostly cont



Quality Team has set up a SQA team which will helps review and approval of the metrics for the projects and metrics council team establish baselines at an organizational level.

Less numbers and proactive metrics are only save business risk. Expectation of quality models mostly contradict on this.

service quality is more difficult for the consumer to evaluate than product quality. Service quality perceptions result from a comparison of consumer expectations with actual service performance and Quality evaluations are not based solely on the outcome of a service but also involve evaluation of the delivery lifecycle

Myth – I can set up my own yardstick to guage my project Mythbusteer – Busted !! – we have Organisation level benchmark available in Process Capability Baseline documents

QA Services - Six Sigma



And exactly how much less did it cost to implement Five Sigma instead of Six, Dwayne?

Is there really a big difference between 99.0% & 99.9996%?

Six Sigma is methodology adopted in engagement which would help to reduce defects.

The most distinguishing feature of 6 Sigma – is that it is a Data Driven. Data drives every phase of the methodology. So if you have a problem and have no data and know the solution, don't turn to Six Sigma because it is for solving problems where solutions are not known and where data can be accessed or collected. It is a Business philosophy – putting customer's first. How does that relate to Humana's business philosophy (Perfect Service)?

Who has ever been to a foreign country where you did not know the native language very well? How easy was it to communicate and get things done? Talk about how Six Sigma is an cross-industry and actually an international improvement methodology. When we have Blats and Green Belts who join Humana, we can immediately talk to them in the same language around improvement methods and about tools used to understand and improve processes. Share an example where you have encountered this.

Lastly, six sigma is a universal measurement of performance based on defects per million opportunities. This allows us to take any process and convert it to a standard measure (million opportunities) so that we can compare any process and understand the defect rate.

Let's try an example: If we have an error rate of 5% for one process, we can take .05 x one million and we know that our DPMO is ? (50,000). So for every million claims we process, 50,000 are defective. And if we have an error rate of 10% on another process, our DPMO would be?(100,000)

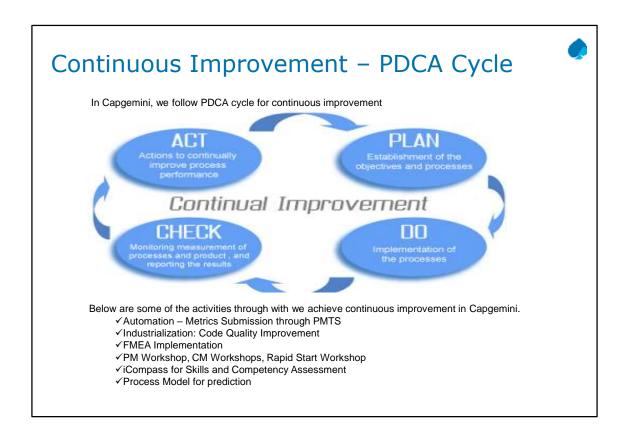
Most companies now view it as a business strategy and a methodology for improving process performance in such a way that customer satisfaction is increased and the bottom line is improved.

It is a managerial initiative AND a set of methods and tools

Initiative:

Improvement
Breakthrough
Systematic, Focused Approach
Right Projects linked to business goals
Right People selected and trained
Project Management and Reviews
Sustain the Gain with New Projects
Results – Process and Financial

Methods and Tools: Process Thinking Process Variation Facts, Figures, Data DMAIC DFSS (DMADV) Statistical Tools Statistical Software Critical Few Variables



Project planning and resource management are crucial elements for a successful project delivery. Standard quality principles assist you to in your planning activities and guide you in the right direction.

Myth – Project planning is the responsibility of project manager alone. I don't have a role to play in it Mythbuster – Busted !! – Although the overall plan is owned by the project manager, all project stakeholder contribute to project planning.

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- ➤ Case Studies & Games

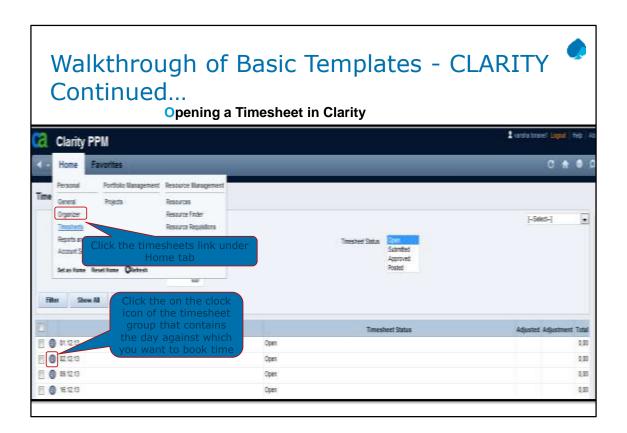
Here is the agenda for today's session.

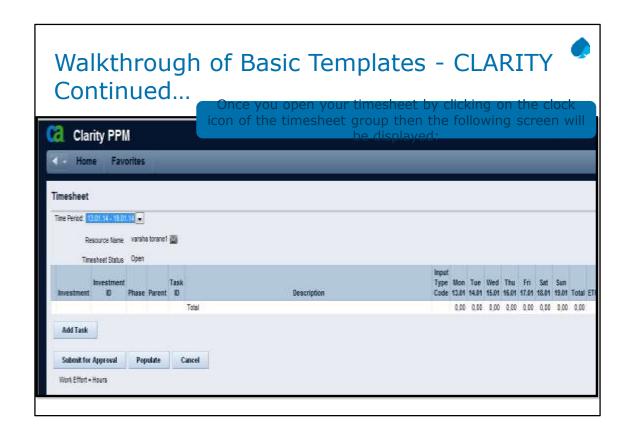
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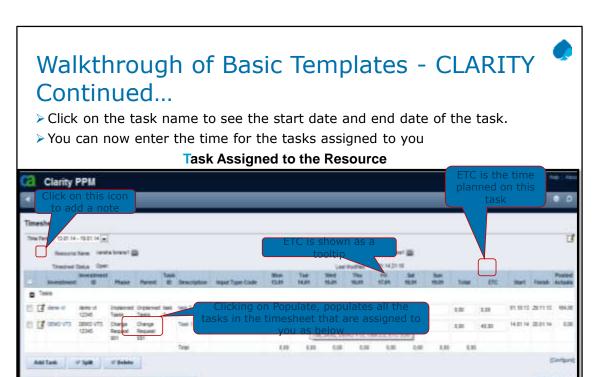


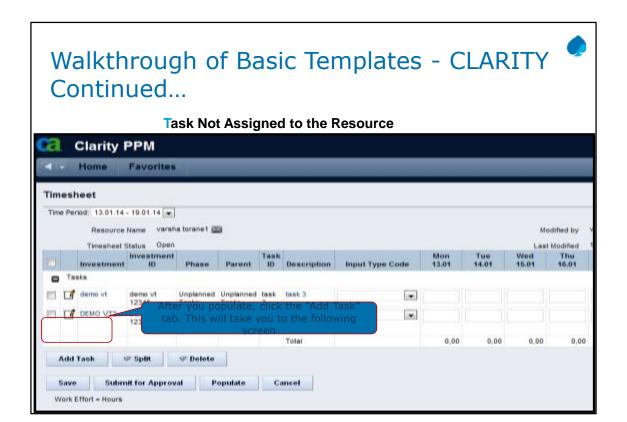
Walkthrough of Basic Templates - CLARITY

- ➤ Opening a Timesheet in Clarity
- ➤ Different Scenarios for Filling up of Timesheets
 - Task Assigned to the Resource
 - Task not Assigned to the Resource
- ➤ Submitting Timesheets







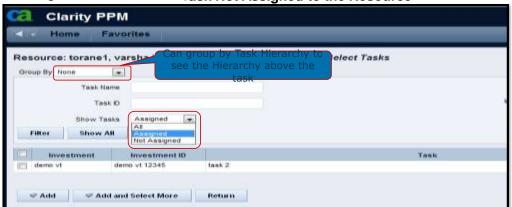




Walkthrough of Basic Templates - CLARITY Continued...

- > From the drop down in the above snapshot select "Not Assigned" and click filter
- ➤ On doing so, you will get a list of tasks that were not assigned to you.
- Check the check box next to the task against which you want to fill time and then click Add this will add this task to your timesheet enabling you to enter time against this task.

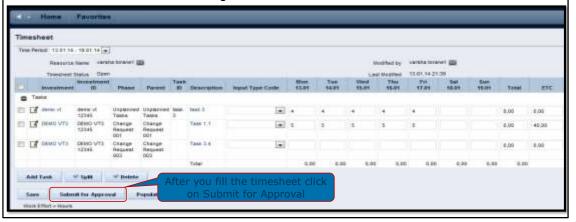
 Task Not Assigned to the Resource

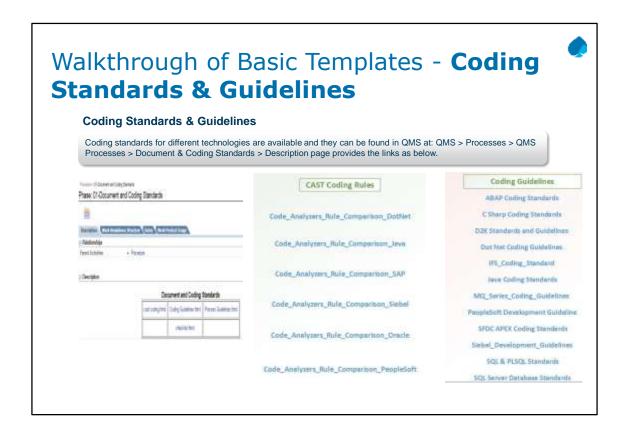




Walkthrough of Basic Templates – CLARITY Continued...

- > In order to book time daily one can save the timesheet and submit it at the end of the week
- Once you save or submit it, it will deduct the number of hours in ETC column with the time you have already entered and at the same time the total number of hours that you have already entered will be shown in the total column
 Submitting the Timesheet







Walkthrough of Basic Templates – DEFECT LOG

Defect Log Template Sections

Defect ID
Title
Description
Date Detected
Detected By
Detected Where
Root Cause
Category
Impact
Priority
Status
Date Last Status Change
Owner
Defect Resolution Actions
Estimated Cost
Target Resolution Date
Comments
Actual Resolution Date
Actual Cost
Sign-Off



QT_Review-Testin g Defect Log.xls

Walkthrough of Basic Templates



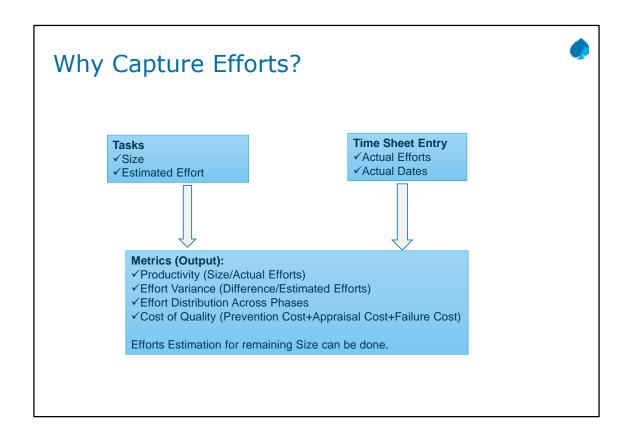
Logging Incident & Problem Tickets



QT_Incident Log.xlsx



QT_Problem Log.xltx

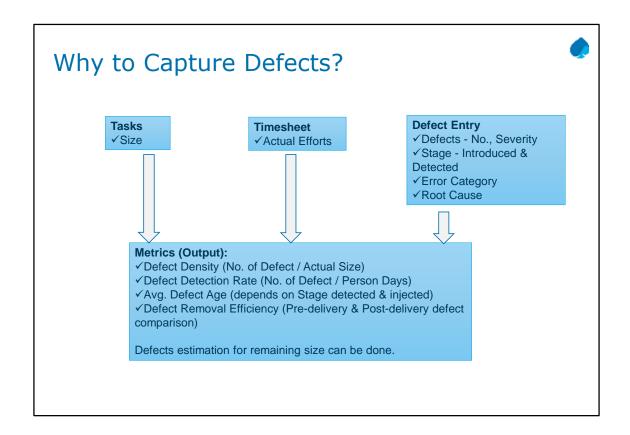


This slide talks about why to capture the efforts.

By capturing the size of the task, estimated effort, actual effort and actual dates... we are going to get the below matrics which will be used to monitor and track the progress of the project/enagement.

Metrics:

- √ Productivity (Size/Actual Efforts)
- √ Effort Variance (Difference/Estimated Efforts)
- √ Effort Distribution Across Phases
- √ Cost of Quality (Prevention Cost+Appraisal Cost+Failure Cost)



This slide talks about why to capture the defects.

By capturing the size of the task, actual effort, no. of defects, severity, stage, error category, root cause etc.. we are going to get the below metrics which will be used to monitor and track the progress of the project/engagement, identify process improvements etc...

Metrics (Output):

- ✓ Defect Density (No. of Defect / Actual Size)
- ✓ Defect Detection Rate (No. of Defect / Person Days)
- ✓ Avg. Defect Age (depends on Stage detected & injected)
- ✓ Defect Removal Efficiency (Pre-delivery & Post-delivery defect comparison)



- ➤ Introduction Concepts of Quality
- ➤ QMS, Its Components & Navigation
- ➤ Deliver (Global QMS)
- ➤ KM Portal Best Practice/Sample Records Database
- ➤ Tools Quality Implementation at Capgemini
- ➤ Our Continual Quality Journey...
- ➤ Industry Standards
- ➤ QA Team
- ➤ Walkthrough of Basic Templates
- > Case Studies & Games

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Case Studies & Games

TEAM GAME

Given below is a table with key words from quality, delivery, SDLC, certifications and organization level roles.

You can find the words arranged horizontally, vertically, diagonally or in a mirror image format. Find out the maximum words.

Υ	С	М	М	ı	S	S	U	Е
Т		Е		D	Т			G
- 1	Т	F		Р	М	ı		R
L	ı	F	Е	С	Υ	С	L	E
Α	М	0		L	0	S	- 1	Α
U	Е	R		Α	Т	S	Е	Т
Q		Т		R			Т	S
М	С	А	R	1	S	K		Α
S	Е	Р	G	Т	Α	S	K	С
Р	М	Т	S	Υ	В		М	М





QUALITY	ISO
COST	СММІ
TIME	ITIL
TEST	QMS
ISSUE	LIFECYCLE
RISK	PM
CAR	SEPG
EFFORT	TASK





