



Quality Management System (QMS) Awareness

Version History

Ver No	Review Date	Author	Reviewed By	Approved by	Description of The Revision
1.2	15 Sep 20	Nisha Bandodkar	Nisha Bandodkar	Lakshmi Mittra	Revised text for clarity
1.3	25 Mar 21	Nisha Bandodkar	Nisha Bandodkar	Lakshmi Mittra	Added defect slide

Agenda

- **What is Quality**
- **Quality: Standards, Frameworks, Models**
- **CLOVER – VISION, MISSION STATEMENT, Values**
- **Clover QMS and Quality Policy**
- **The Quality Challenges**
- **Quality Assurance and Quality Control**
- **What's expected from each of us ?**



Objectives

The Stages In Our Quality Journey

Primary Objective of this session -

- Basics of Quality and Processes at Clover Infotech



What is Quality



User friendly



Meeting Requirements



Performance



Quality must be

SYSTEM-ORIENTED

Quality must be

CUSTOMER-FOCUSED

Quality definition by Experts



"Fitness for use"

Joseph M Juran

"Conformance to requirements, not as goodness"



Philip Crosby



"Quality in a product or service is not what the supplier puts in. It is what the customer gets out and is willing to pay for"

Peter Drucker



W. Edwards Deming

"Quality is Predictability"



"Degree to which a set of inherent characteristic fulfills requirements. The standard defines requirement as need or expectation"

Quality: Standards, Frameworks, Models



Set of rules that control how products are developed.

Set of rules which manage people, process, technology, systems, services and materials.

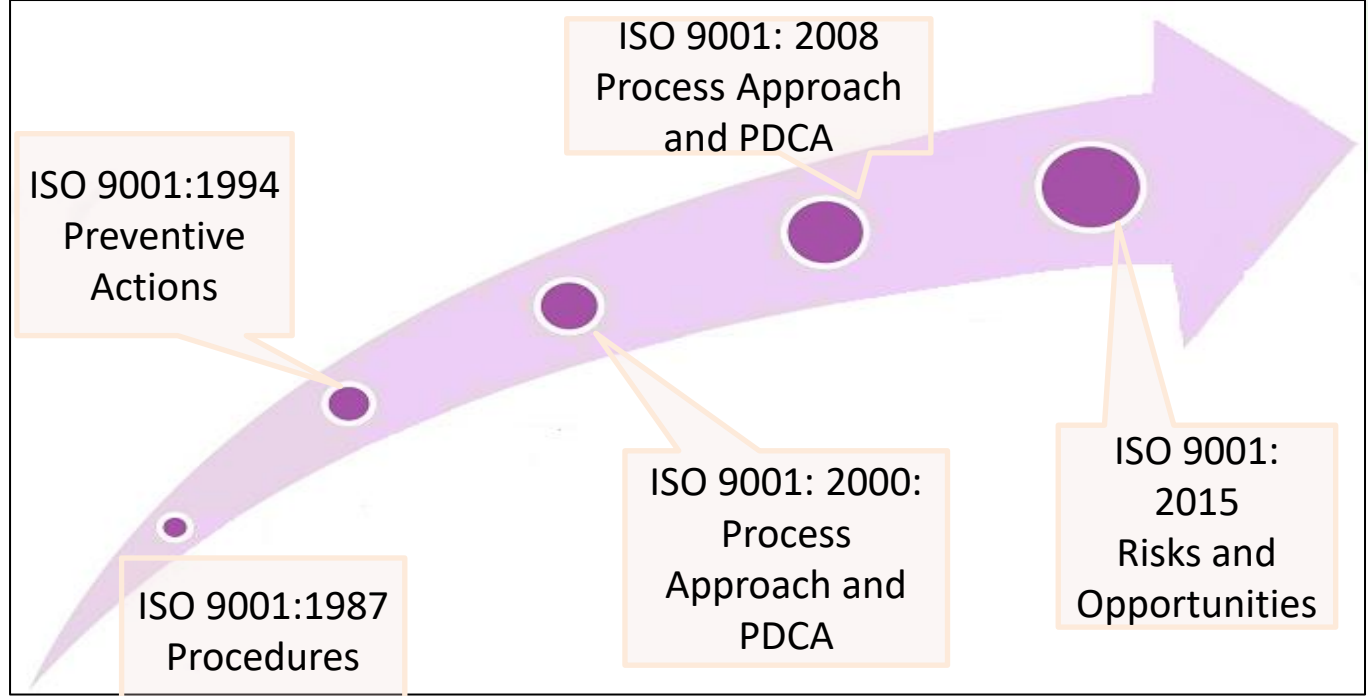
Encapsulation of industry best practices

Helps to satisfy business goals and objectives

Guide for continuous improvement

Evolution of Standard - ISO 9001:2015

- International Standards for Quality Assurance
- Lists out processes to be followed
- Document a Quality System
- Comply to the Quality System



PDCA*: Plan Do Check Act

Models / Standards / Approaches

Basic Approach for ISO 9001 & ISO 27001

Say what you do

Do what you say

Record what you did

Check on the results

Act on the difference



CLOVER - VISION & MISSION STATEMENT

To be the most trusted partner
to businesses across the globe
by making them technology
independent

*Vision Statement – Focuses on tomorrow
and what the organization wants to become

To be the leading provider of
reliable and consistent technology
services that enables our clients to
achieve a competitive edge

*Mission Statement – Focuses on today
and what the organization does

CLOVER - VALUES



* Values – They are Guiding principles of the Organization

What is Quality Management System ?

‘An organisational framework (generally formal) of policies, **processes**, process accessories, tools and infrastructure to achieve the organisational quality objectives, as derived from its business objectives.’

Our Quality Management System is **CL[💡]VER QMS**

Salient Features of CloverQMS

- Acts as central repository for organisational processes
- Establishes a structured and standard manner of formulating processes
- Formalises processes across the organisation
- Establishes common understanding of processes
- Provides standard and consistent way of doing / performing activities across the organisation
- Provides basis for continual improvement
- Inculcates process culture in the organisation

Our Quality Policy

We are committed to deliver industry-relevant Client Services that exceed the changing needs of the Clients worldwide.

We are committed to provide the highest quality of services to Clients by:-

- *Exceeding Client's expectations for service performance and quality*
- *Improving our objectives and processes through continuous reviews*
- *Meeting the requirements of International Quality Standards*
- *Engaging employees, ensuring they are aware of and trained in fulfilling Client expectations*
- *Ensuring our work is error free and of excellent quality*
- *Focusing on continuous learning and improvement by upgrading our knowledge, investing in learning & development*
- *Committing to the continual improvement of the Quality Management System.*

Javed Tapia

Managing Director

What is a Process?



Process consists of a sequence of systematic steps or procedures to convert inputs into desired result (Product or service).

Examples :

Input	Process	Output
Business Requirements	Requirement Gathering	SRS, Signoff records, review records
Signed SRS	Design	Signed design documents (HLD, LLD)
Signed design	Coding	Source code

Input	Process	Output
Graduates, Test questions, Hardware, Software	Recruitment	Selected candidates, Offer
Selected Candidates	Training	Skilled Resources

Output of one process will be an input for another process, hence Quality of output in all the process is very essential to deliver the final output with desired quality



Dear Cloverites,

Please find below the Clover Information Security Policy for Clover Infotech.

Clover Information Security Policy:

To protect your assets from all threats, whether internal or external, deliberate or accidental, CIPL will take measures to ensure that:

- Information will be protected against unauthorized access
- Confidentiality of Information is assured
- Integrity of Information is maintained
- Availability of information and information system will be met
- Regulatory and legislative requirements will be met
- Business Continuity plans will be produced, maintained and tested
- Necessary training will be offered to maintain Information Security
- Incident management process will be practiced to keep damage to minimum and to prevent the recurrence of the same
- Internal policies and procedures will be reviewed periodically for continuous improvement

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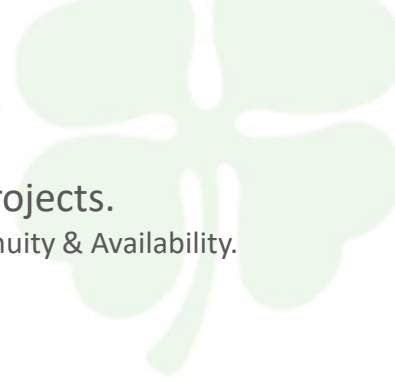
Clover QMS - Project Lifecycles

ENGINEERING Process -

- **Managed IT** – Engineering Process areas based on ITIL framework for Support Projects.
E.g. – Tickets SLA Management, Incident Management, Problem Management, Service Capacity, Service Continuity & Availability.
- **Application Development** – Engineering Process areas based on SDLC life Cycle
E.g. – Requirements, Design, Coding, Testing, UAT.
- **Infrastructure Delivery** – Migration, Conversion ,Implementation and Upgrade Projects.
- **Application Support** – Ticket SLA Management, Change Management in terms of Code based and Configuration based changes.

COMMON Process -

- **Project Management** – This Process is common across all Projects
E.g. – Planning, Estimation, Training, Resource Management, Work Schedule Management, Defects Management, Backup, Archival, Risk Management, Configuration Management, Delivery Management, Audits Management, Communication Management.










Clover QMS - Support Function Processes



- Marketing
- Talent Acquisition
- Corporate Quality
- Project Management Office
- Academy
- Administration
- IT
- HR
- Resourcing
- Sales
- CoE – Centre of Excellence
- Practices

Clover QMS - Managed IT Process Templates

Managed IT Services Team

Sr. No.	ID	Name	Version Number	Artifact
1.	QMS-L4-FR-MTS-01	Service Management Plan	2.0	
2.	QMS-L4-FR-MTS-02	Issue Tracking Sheet	2.0	
3.	QMS-L4-FR-MTS-03	Problem & Known error database log	2.0	
4.	QMS-L4-FR-MTS-04	Site Document	2.0	
5.	QMS-L4-FR-MTS-05	System Study Document	2.0	
6.	QMS-L4-FR-MTS-06	Schema assessment /Security Policy document	2.0	
7.	QMS-L4-FR-MTS-07	Backup Policy Document	2.0	
8.	QMS-L4-FR-MTS-08	Monthly Service Report	2.0	
9.	QMS-L4-FR-MTS-09	Incident Report (Intrusion and Breaches)	2.0	
10.	QMS-L4-FR-MTS-10	Test Reports	2.0	
11.	QMS-L4-FR-MTS-11	Sign-off for all deliverables	2.0	
12.	QMS-L4-FR-MTS-12	Monthly Service Report	2.0	

Clover QMS - Application Development Process Templates

Application Development Team

Sr. No.	ID	Name	Version Number
1.	QMS-L4-FR-ADT-01	Requirement Understanding Document	2.0
2.	QMS-L4-FR-ADT-02	Requirements Traceability Matrix Form	2.0
3.	QMS-L4-FR-ADT-03	Test Case Form	2.0
4.	QMS-L4-FR-ADT-04	Defect Report Form	2.0
5.	QMS-L4-FR-ADT-06	User Training Feedback Form	2.0
6.	QMS-L4-FR-ADT-07	Unit Test Cases	2.0
7.	QMS-L4-FR-ADT-08	Functional Scope Document	2.0
8.	QMS-L4-FR-ADT-09	High Level Design Document Template	2.0
9.	QMS-L4-FR-ADT-10	Low Level Design Document Template	2.0
10.	QMS-L4-FR-ADT-11	User Manual Template	2.0
11.	QMS-L4-FR-ADT-12	Data Migration Strategy	2.0
12.	QMS-L4-FR-ADT-13	Data Collection Sheet	2.0
13.	QMS-L4-FR-MR-04	Minutes of Meeting Form	2.0
14.	QMS-L4-CD-ADT-07	Standards for System Documentation	2.0

Clover QMS - Standards & Guidelines

Application Development Team



Sr. No.	ID	Name	Version Number
1.	QMS-L4-GD-ADT-01	Guidelines for Information Gathering, Study and Analysis	2.0
2.	QMS-L4-GD-ADT-02	Guidelines for Definition of Constraints	2.0
3.	QMS-L4-GD-ADT-03	Guidelines for High Level Design	2.0
4.	QMS-L4-GD-ADT-04	Guidelines for Low Level Design	2.0
5.	QMS-L4-GD-ADT-05	Guidelines for Testing	2.0

Sr. No.	ID	Name	Version Number
1.	QMS-L4-CD-ADT-01	Standards for Coding in Dot Net	2.0
2.	QMS-L4-CD-ADT-02	Standards for Coding in Java	2.0
3.	QMS-L4-CD-ADT-03	Standards for Coding in ASP	2.0
4.	QMS-L4-CD-ADT-04	Standards for Coding in C	2.0
5.	QMS-L4-CD-ADT-05	Standards for Coding in C++	2.0
6.	QMS-L4-CD-ADT-06	Standards for Coding in VB	2.0
7.	QMS-L4-CD-ADT-07	Standards for System Documentation	2.0

Quality Management Plan

Quality Management Plan comprises of key metrics monitoring of project objectives, by which the requirements and goals for a service or project are fulfilled

Below mentioned are Project Key Measurements :

Metric / Objective	Target	How	Source Data
Schedule Variance	90%	Track Planned vs achieved schedule	Project Schedule
Effort Variance	85%	Track Planned vs achieved efforts	Project Timesheets
Number of Critical Defects	≤ 3	Measure client reported defects	Defect Reports
Achieve Internal/External SLA	85%	Track incidents against defined SLAs	Incident Reports
Process Compliance Index	70%	Monthly Project audits	Audit Reports
Customer Satisfaction Score	≥ 3	Score achieved on a scale of 1-5	Survey Reports

The Quality Challenges

The Mental Blocks to watch out for -

“Quality increases Costs”

Quality Vs Costs

“Quality curbs Creativity”

Quality Vs
Creativity

“Defects...”

Insufficient
Reviews

“Do Work now. Do Quality later; -maybe”

Alienation from
Work

“Quality is done by Quality Department”

Ownership /
Responsibility

Defects



Anything that adversely impacts the expected functionality
Eg. Incorrect logic, Missing functionality



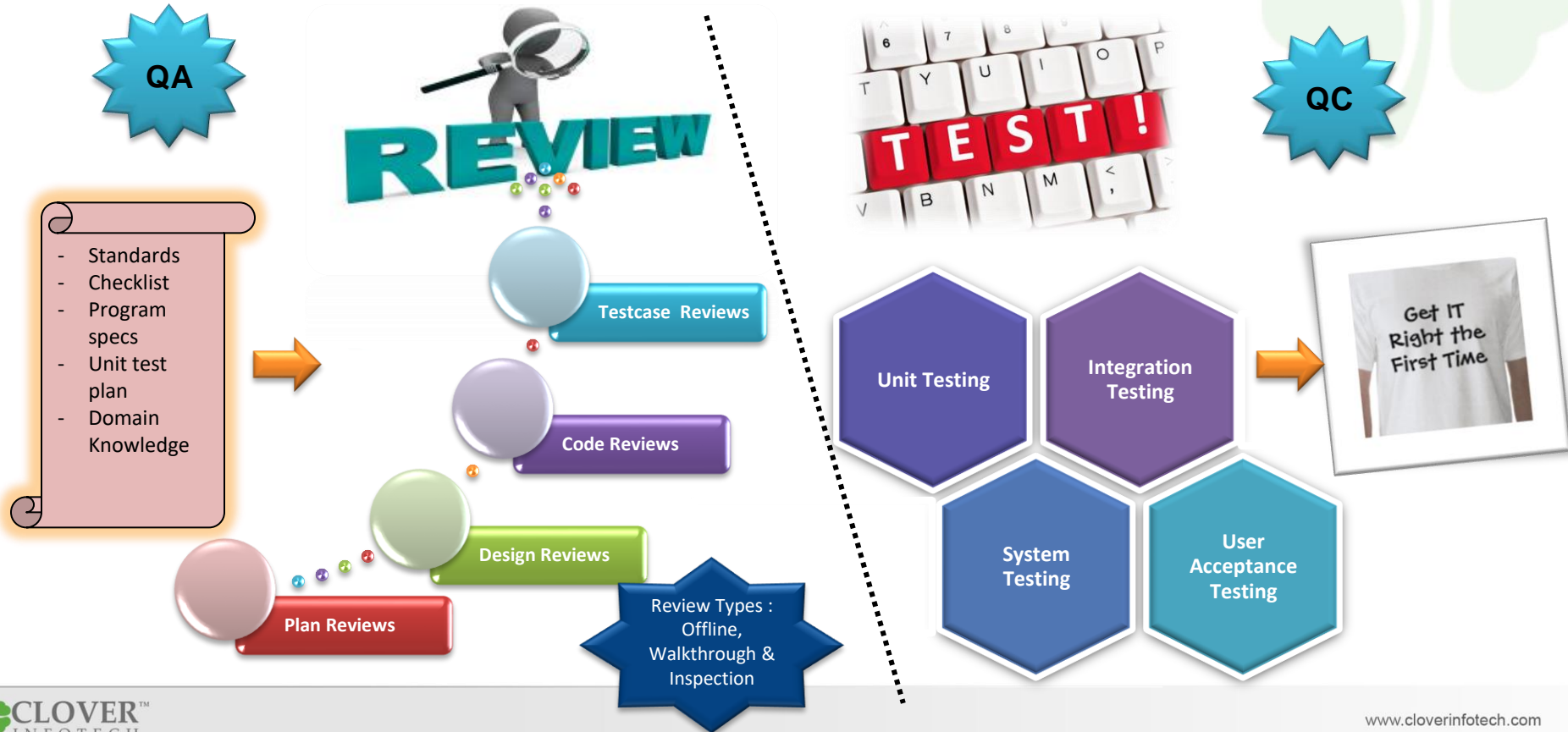
Anything that reduces the quality of a work product
Eg. Performance issues



Any variance from a desired requirement, attribute or functionality

A defect is a deviation from specifications, whether missing, wrong, or extra

How do I find Defects & ensure Product Quality?



Quality Control Vs Quality Assurance



Focus on Product

Reactive

Find defects

Activities are performed
after product is ready

Eg. : Integration Testing,
UAT, System Testing



Focus on Process

Proactive

Prevent defects

Activities are performed
before product is ready

Eg. : Defining Process,
Reviews, Audits, Training

So , which is better?



☐ Prevention is
better than cure

What's expected from each of us ?

Expectations -

- Being responsible for the quality of my work/output
- Differentiating between requirement and solution
- Being customer-oriented
- Participate in quality initiatives
- Adherence to defined processes



What's in it for you and me?

Direct and Indirect Benefits for all of us -

- Culture of process and quality
- Clarity of roles and responsibilities
- Uniformity in practice
- Repeatable, measurable, predictable outputs
- Culture of empowerment and innovation
- Customer satisfaction / delight
- Profitability and growth



Thank You



Reach us at: CloverQuality@cloverinfotech.com

