Fundamentals of QC & QA

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Introduction to QC&QA

(1) Introduction to Quality Management
(2) QC versus QA
(3) QC & QA in Quality System
(4) Quality Plan Implementation

Quality Management

The act to oversee all activities and tasks needed to maintain a desired level of product's requirements. This includes creating and implementing standard operational planning and assurance, as well as procedural control and improvement.

QC: Quality Control

QC : Control the quality from raw material stage to final finished stage of a product based on specifications. In General, it includes:

- o IQC (Incoming Quality Control)
- o IPQC (In-Process Quality Control)
- o FQC (Final Quality Control)
- o OQC (Out-Going Quality Control)

QA: Quality Assurance

QA : Assure the customers that the product is ready for intended usage with all the required testing & documentation confirmed. In general, it includes:

- System Engineer
- SQE (Supplier Quality Engineer)
- CTS (Customer Technical Support)
- Six Sigma Engineer (Green, Black Belts…)
- Measurement System Engineer
- Quality Manager

FAQ: QA vs. QC

QA	QC
Process	Product
Pro-Active	Reactive
Staff Function	Line Function
Prevent Defects	Find Defects
Process Analysis	Problem Analysis

QC & QA in Quality System

QA Route

| SQE | → | QA Engineers & Managers | → | CTS |

IQC → IPQC → FQC → OQC → SALE
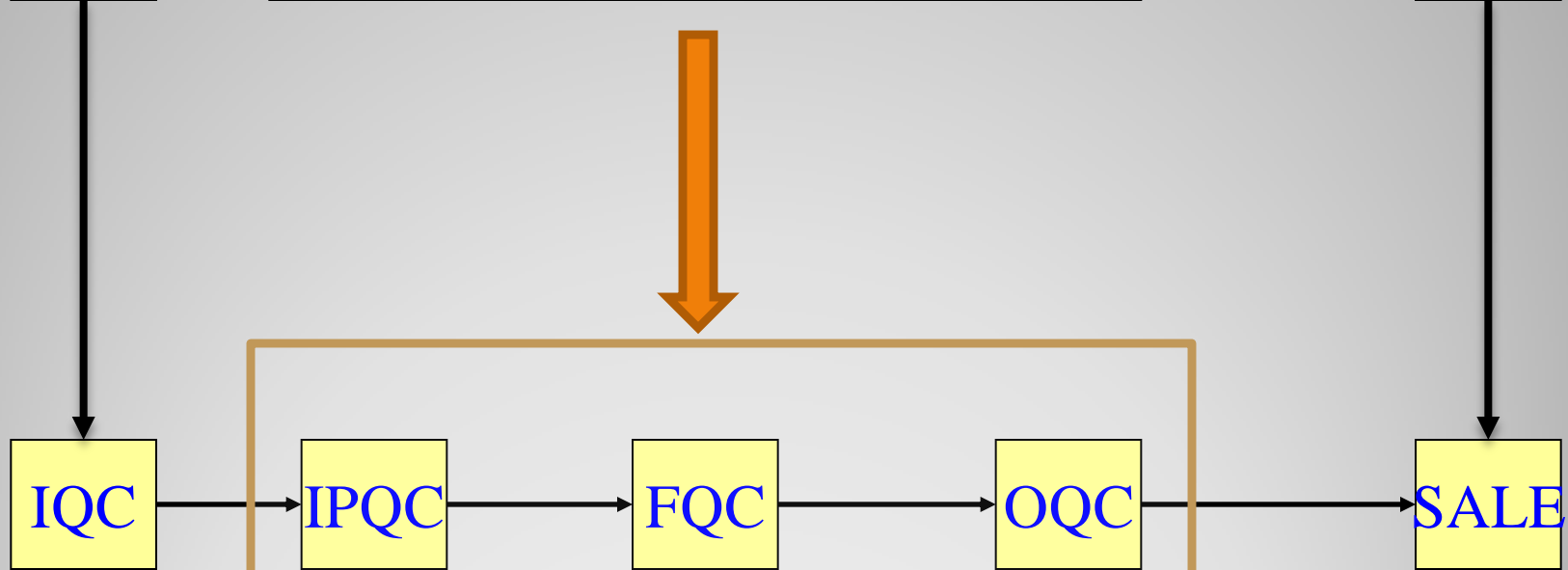
QC Route

Quality Plan Implementation

Implementation Outline

(1) Digitize Personal Responsibility (Data)

(2) Establish Science-based, Rules-abided SOP (SOP)

(3) Establish a quality supervision and inspection network (Training)

(4) Implementation of PDCA Processes (QCC)

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Collect Data → Establish SOP → Train Participants → QCC → Collect Data
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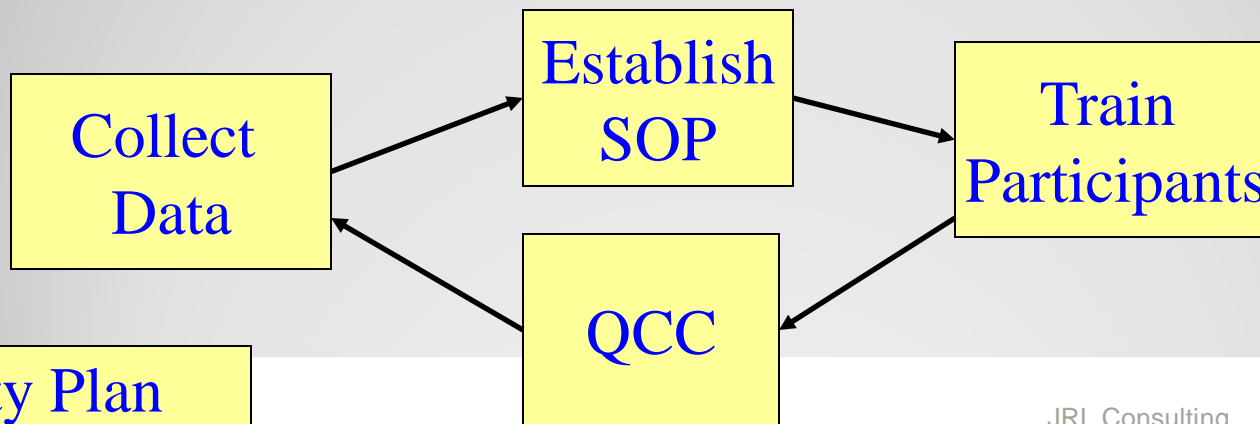
Quality Plan Flow Sequence

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