

Quality Assurance Basic Educational Course

Based on Reliability Handbook

Section 1 Quality Assurance

Section 2 Reliability

Section 3 Reliability Testing and Reliability Prediction

Section 4 Failure mechanism

Section 7 ISO introduction

Renesas Design VietNam Co., Ltd
Design Engineering Division

Nguyen Phuoc Nguyen, Tran Dac Khoa

Nov 29th, 2016

Renesas Electronics Group

Quality Policy

We aim to deliver customer satisfaction and enhance society by providing highly reliable and high-quality products and services.

We abide by the following principles in all stages of our business activities—including sales, design, development and manufacturing—in accordance with our corporate quality management system.

We will:

- Comply with all applicable legal and regulatory requirements
- Enhance product safety and trust
- Commit to continuously improve the quality of products and services
- Strive to continually improve our quality management system

RVC Company policy

Accuracy Quality Innovation

RVC achieve the best quality design with accurate and innovative design methodology and contribute as a global design center in Renesas Group.

Our mission

- Hardware/Software design of SoC/MCU
- Core competence of Renesas
- Customer Satisfaction

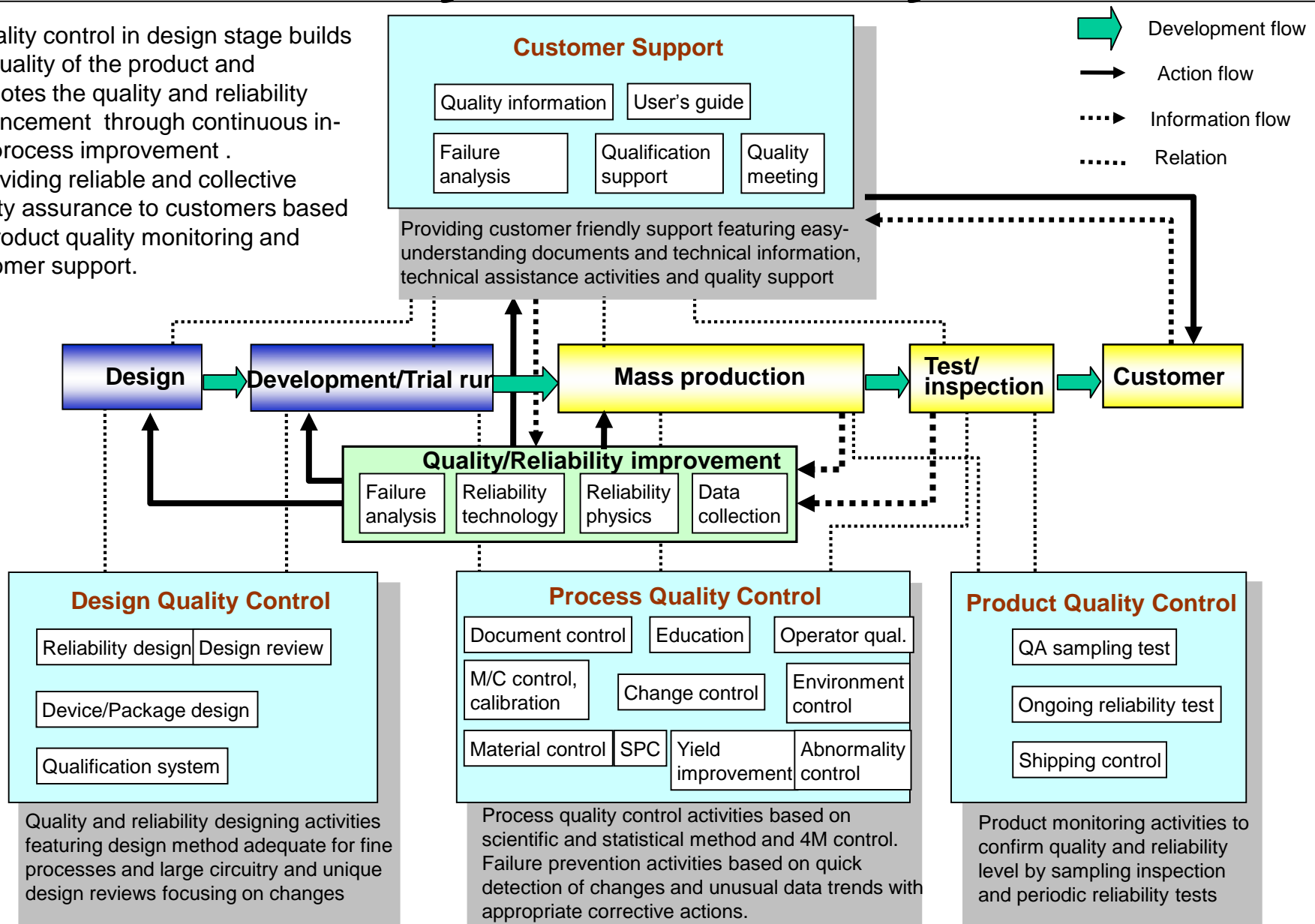
Our goal

- Zero bug in design
- Quick design cycle
- Advanced design management

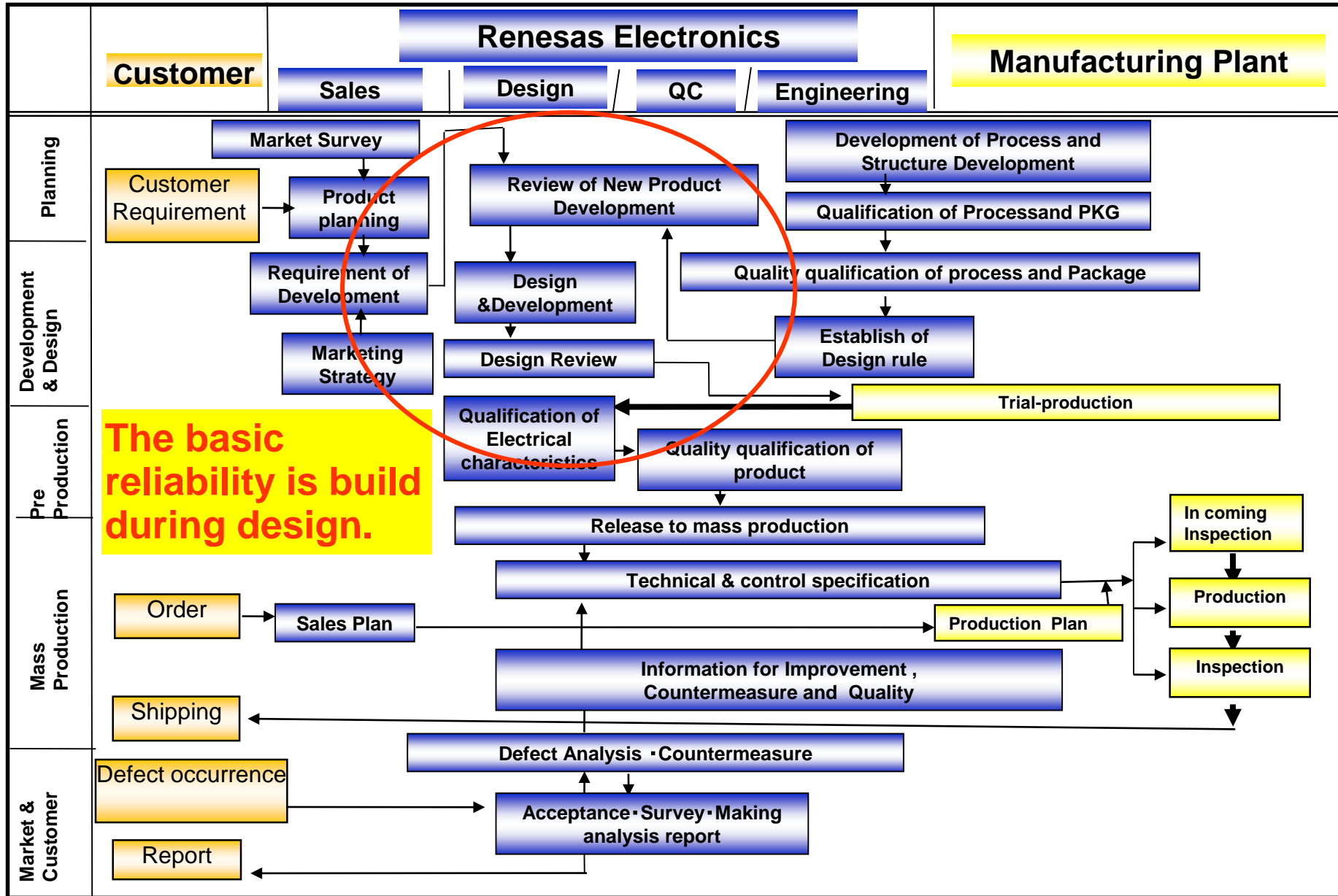
Quality Assurance System

Quality control in design stage builds the quality of the product and promotes the quality and reliability enhancement through continuous in-line process improvement.

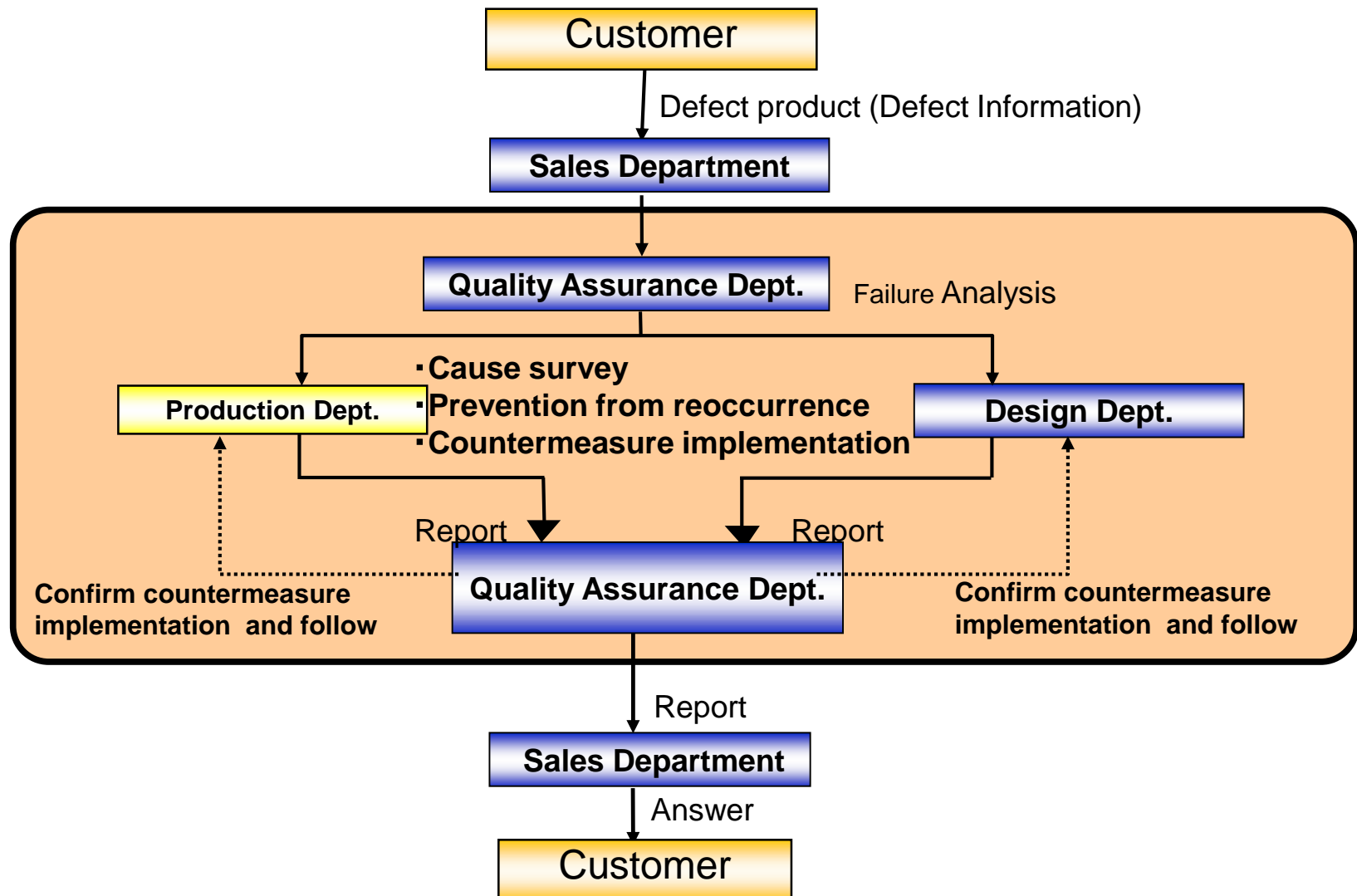
Providing reliable and collective quality assurance to customers based on product quality monitoring and customer support.



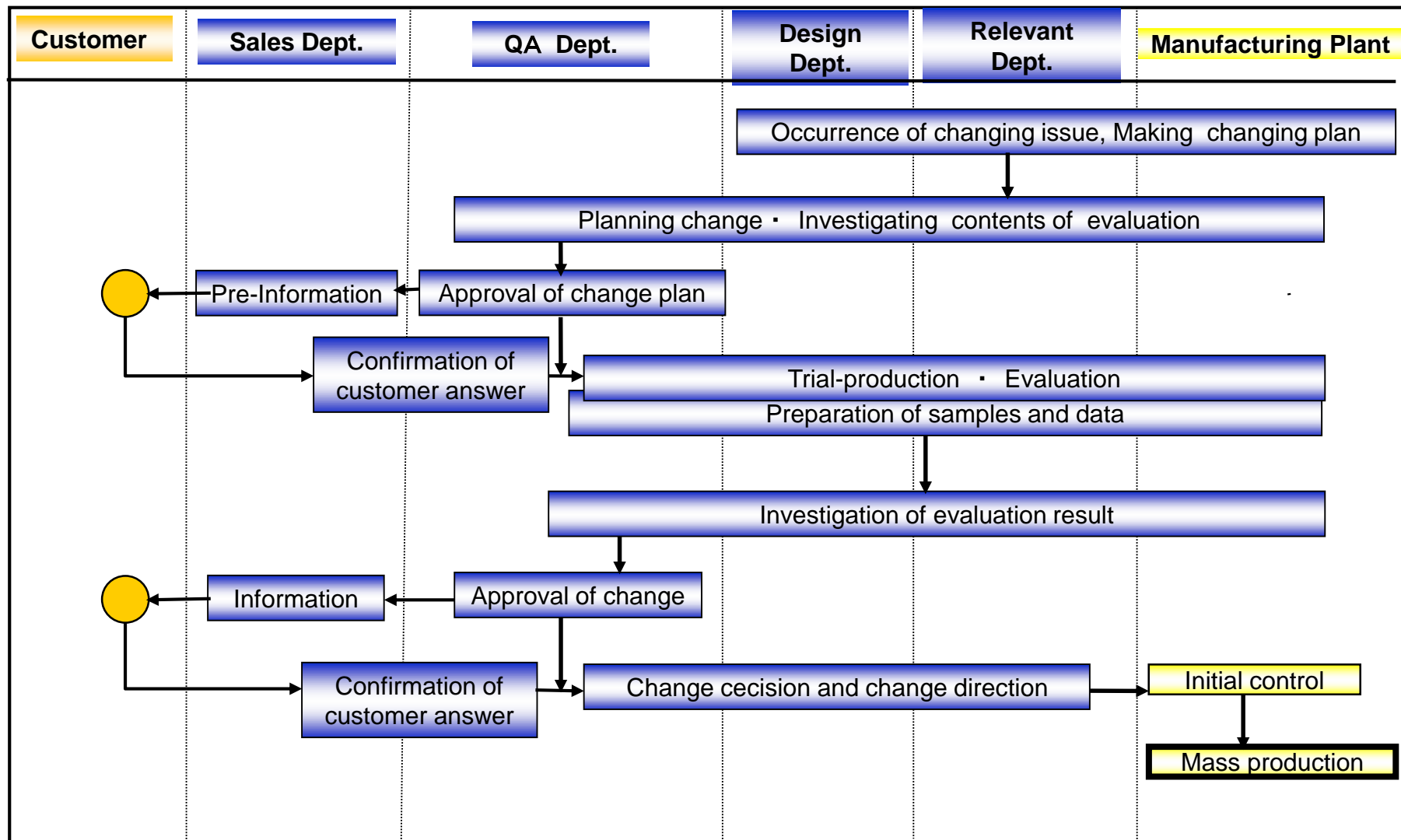
Quality Assurance System



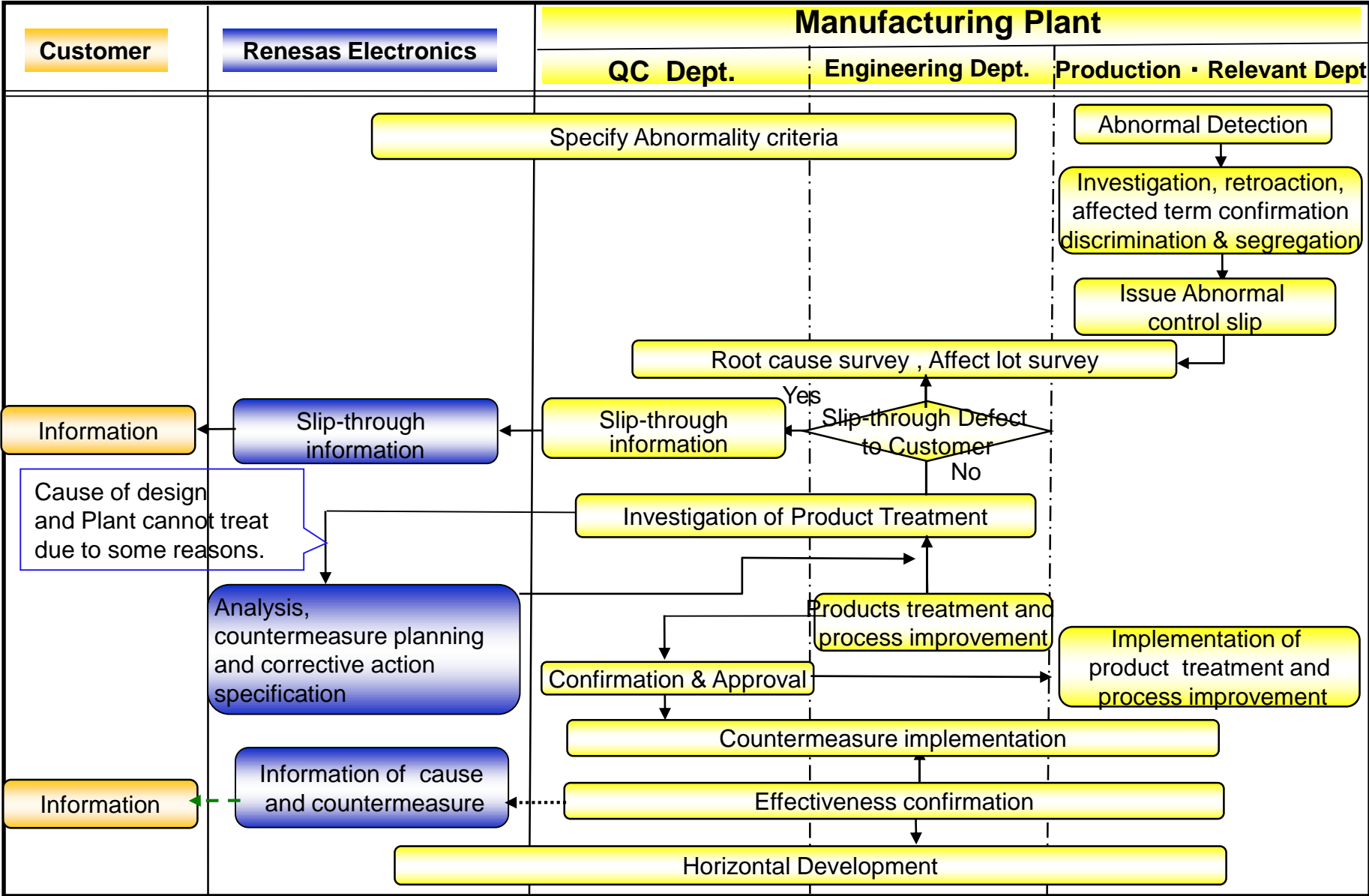
Customer complaint handling



Change Control System



Corrective Action Flow





Renesas Electronics Corporation

Quality definition

Qualities in business, engineering and manufacturing has a pragmatic interpretation as the non-inferiority or superiority of something;

It is also defined as fitness for purpose. Quality is a perceptual, conditional and somewhat subjective attribute and may be understood differently by different people.

Consumers may focus on the specification quality of a product/service, or how it compares to competitors in the marketplace.

Producers might measure the conformance quality, or degree to which the product/service was produced correctly.