

# Quality Control Engineer: Principal Quality Control Engineer

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Develops and implements testing and inspection procedures. Tests raw material, chemicals and/or finished product to quality controls to ensure compliance with quality standards and applicable government regulations. Audits testing results to determine if product specifications are met. Advises operating units on quality control standards for raw materials, chemicals, packaging materials and finished products. Recommends corrective action where necessary and develops plant quality control manuals. Work performed includes the following: Contract Reviews, Inspection/Audit Practices, Material Review Board, Customer Liaison, Support to Suppliers, Quality Program, Engineering Change Board and Process Focus Team.

## **Knowledge**

Exhibits an exceptional degree of ingenuity, creativity and resourcefulness. Applies and/or develops highly advanced technologies, scientific principles, theories and concepts. Viewed as expert within the field. Develops quality assurance systems and procedures to meet the requirements of assigned projects. Reviews quality estimates and prepares estimates for proposals. Oversee the quality assurance program for assigned projects to ensure maintenance of quality standards.

## **Problem Solving**

Develops information which extends knowledge in a given field. Information may form the basis of newly developed concepts, theories and products.

## **Discretion/Latitude**

Often acts independently to uncover and resolve issues associated with the development and implementation of operational programs. Plans R&D programs and recommends technological application programs to accomplish long-range objectives. Work is checked only to the effectiveness of results obtained, typically requiring a long-term perspective. Virtually self-supervisory.

## **Impact**

Designs research and develops highly advanced new applications resulting in new product/business opportunities for the company. Erroneous decisions or recommendations would have a long-term negative effect on organization's reputation and business posture.

## **Liaison**

Serves as consultant to top management in long-range company planning concerning new or projected areas of technological research and advancements. Prime spokesperson on company's technical capabilities and future directions. Often instrumental in attracting and obtaining major new company business. Continual internal contacts with various groups and departments on QC matters. Continual customer contact and subcontractor, supplier and field contact on quality matters.

## **Work Products (Examples may include but are not limited to)**

Quality System Databases & Software Applications, i.e., TIPQA and FRACAS. Microsoft Office Applications. Inspection & Measurement Equipment, i.e., Microscope. Knowledge expert of inspector Operator Self Inspection, test, and statistical control methods.

## **Minimum Education and Experience**

20+ years with BS; preferably in Electrical Engineering. May consider Mechanical Engineering. 18+ years with MS; preferably in Electrical Engineering. May consider Mechanical Engineering.