

# Quality management



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## **ABOUT THE BOOK**

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# **FULLY SOLVED BOOK**

## **DBA7206 Quality management**

**UNIT I INTRODUCTION TO QUALITY MANAGEMENT** - Definitions – TOM framework, benefits, awareness and obstacles. Quality – vision, mission and policy statements. Customer Focus – customer perception of quality, Translating needs into requirements, customer retention. Dimensions of product and service quality. Cost of quality.

**UNIT II PRINCIPLES AND PHILOSOPHIES OF QUALITY MANAGEMENT** - Overview

of the contributions of Deming, Juran Crosby, Masaaki Imai, Feigenbaum, Ishikawa, Taguchi techniques – introduction, loss function, parameter and tolerance design, signal to noise ratio. Concepts of Quality circle, Japanese 5S principles and 8D methodology.

**UNIT III STATISTICAL PROCESS CONTROL AND PROCESS CAPABILITY** - Meaning

and significance of statistical process control (SPC) – construction of control charts for variables and attributed. Process capability – meaning, significance and measurement

– Six sigma concepts of process capability. Reliability concepts – definitions, reliability in series and parallel, product life characteristics curve. Total productive maintenance (TMP) – relevance to TQM, Terotechnology. Business process re-engineering (BPR) – principles, applications, reengineering process, benefits and limitations.

**UNIT IV TOOLS AND TECHNIQUES FOR QUALITY MANAGEMENT** - Quality functions development (QFD) – Benefits, Voice of customer, information organization, House of quality (HOQ), building a HOQ, QFD process. Failure mode effect analysis (FMEA) – requirements of reliability, failure rate, FMEA stages, design, process and documentation. Seven old (statistical) tools. Seven new management tools. Bench marking and POKA YOKE.

**UNIT V QUALITY SYSTEMS ORGANIZING AND IMPLEMENTATION** - Introduction to

IS/ISO 9004:2000 – quality management systems – guidelines for performance improvements. Quality Audits. TQM culture, Leadership – quality council, employee involvement, motivation, empowerment, recognition and reward.

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