

# Strategies for Food Manufacturing Quality Control

This slide shows techniques to maintain food production quality. It provides information such as ingredient specification, approved supplier list, product formulation, manufacturing procedures, in-process records, etc.



1

## Ingredient Specification

- Source right ingredients and maintain their condition
- Helps quality processing of foods
- Add text here

2

## Approved Supplier List

- Assess ingredient, supplier name, address, etc. from government approved vendors
- List down 3 suppliers per ingredient
- Add text here

3

## Product Formulation

- Prepare detailed document for each production schedule
- Note down batch no., ingredients, etc.
- Add text here

4

## Manufacturing Procedures

- Record information about
  - Storage method
  - Facility condition
  - Roles and responsibilities
  - Formulation
  - Add text here

5

## In-Process Records

- Record product weight, size, expiry, machinery condition, etc. in real time
- Add text here

# Quality Control For The Food Industry

**Clemens Wendtner**



## **Quality Control For The Food Industry:**

**Statistical Quality Control for the Food Industry** Merton R. Hubbard, 2013-04-17 If an automobile tire leaks or an electric light switch fails if we are short changed at a department store or erroneously billed for phone calls not made if a plane departure is delayed due to a mechanical failure these are rather ordinary annoyances which we have come to accept as normal occurrences Contrast this with failure of a food product If foreign matter is found in a food if a product is discolored or crushed if illness or discomfort occurs when a food product is eaten the consumer reacts with anger fear and sometimes mass hysteria The offending product is often returned to the seller or a disgruntled letter is written to the manufacturer In an extreme case an expensive law suit may be filed against the company The reaction is almost as severe if the failure is a difficult to open package or a leaking container There is no tolerance for failure of food products Dozens of books on quality written for hardware or service industries discuss failure rates product reliability serviceability maintainability warranty and repair Manufacturers in the food industry cannot use these measurements food reliability must be 100% failure rate 0% Serviceability maintainability warranty and repair are meaningless terms to food processors

**Statistical Quality Control for the Food Industry** Merton Hubbard, 1996 Food quality systems control charts fundamentals sampling test methods product specifications process capability process control sensory control net content control design of experiments vendor quality assurance implementing a quality control program the computer and process control

**Quality Control in the Food Industry** S. M. Herschdoerfer, 1984 **Quality Control for the Food Industry** International Trade Centre, 1991 **Quality Assurance for the Food Industry** J. Andres Vasconcellos, 2003-12-29 Food companies regardless of their size and scope understand that it is impossible to establish a single division devoted to quality as quality is the responsibility and purpose of every company employee Applying this theory demands the cooperation of each employee and an understanding of the methodology necessary to establish implement and

**Fundamentals of Quality Control for the Food Industry** Amihud Kramer, Bernard A. Twigg, 1962 Responsibilities and organization of the quality control department Some general principles Color and gloss Viscosity and consistency Size and shape Defects Kinesthetics or texture Flavor Taste testing Microanalytical methods Water waste control and sanitation Government and trade standards of quality Development of grades and standards of quality Acceptance sampling and inspection Recording and reporting control charts Evolutionary operations EVOP Production control Inventory control and budgeting Transportation

**Quality Control in the Food Industry V1** S Herschdoerfer, 2012-12-02 Quality Control in the Food Industry Volume 1 focuses on the general aspects of quality control in the food industry emphasizing the controllable factors that affect the quality of the finished product including the selection of raw materials processing methods packaging storage and distribution The book describes the principles of quality control and some important concepts such as sensory assessment and statistical approaches along with food standards and health problems in quality control This volume is organized into six chapters and

begins with an overview of the application organization related problems techniques and prospects of quality control The next chapters focus on the chemical and microbiological aspects of health problems in quality control fundamental concepts in statistics as applied to quality control from sampling to the estimation of ingredients and taste testing as an approach to quality control of processed foods The book concludes by considering the importance limitations and problems associated with food standards with special reference to their international aspects This book will be of interest to food scientists and technologists managers in the food industry and students Food Industry Quality Control Systems Mark Clute,2008-10-22 With more than 100 tables spreadsheets and program outlines Food Industry Quality Control Systems features all of the systems needed for food manufacturing facilities to assure food quality and safety This book outlines the role of management in overall quality control and the role of HACCP within a company It explains the basics of quality control programs including pest control programs lot coding organizational charts specifications supplier certification and sanitation programs Readers can visit the CRC website to download supporting programs in a plug and play format and adaptable forms with specific examples and resources that enable companies to customize forms to fit their own needs **Quality Control in the Food Industry V2** S Herschdoerfer,2012-12-02 Quality Control in the Food Industry Volume 2 focuses on quality control in the food industry emphasizing the controllable factors that affect the quality of the finished product including the selection of raw materials processing packaging storage and distribution The book describes the principles of quality control in industries such as soft drinks dairy products flour and bread flour confectionery meat and fish and their products and edible fats and oils This volume is organized into seven chapters and begins with an overview of the various uses of water in the food industry along with standards and methods of treatment of wastewaters produced by food manufacturers The book then systematically discusses the quality tests in the dairy industry quality control for flour and flour confectionery including pastry and cakes and quality control methods for manufactured meat products The book also explains the quality control in the fish industry and then concludes with a chapter on quality assessment for edible fats and oils and fat products such as margarine salad oils frying fats and shortenings mayonnaise and salad dressings and creams This book is a valuable source of information for food scientists and technologists managers in the food industry and students Statistical Quality Control for the Food Industry Merton R. Hubbard,2012-12-06 Specifically targeted at the food industry this state of the art text reference combines all the principal methods of statistical quality and process control into a single up to date volume In an easily understood and highly readable style the author clearly explains underlying concepts and uses real world examples to illustrate statistical techniques This Third Edition maintains the strengths of the first and second editions while adding new information on Total Quality Management Computer Integrated Management ISO 9001 2002 and The Malcolm Baldrige Quality Award There are updates on FDA Regulations and Net Weight control limits as well as additional HACCP applications A new chapter has been added to explain concepts and implementation of the six sigma quality control system *Statistical*

*Quality Control for the Food Industry* Merton Hubbard, 2013-11-11 Considering the ability of food processing companies to consistently manufacture safe foods with uniform quality over the past 20 or 30 years without these new tools and new systems one might expect that quality control improvements would be marginal. On the other hand these changes have already provided substantial opportunities for process and product improvement. This second edition is intended to update the basic concepts and discuss some of the new ones.

**Preface to the First Edition** If an automobile tire leaks or an electric light switch fails if we are short changed at a department store or erroneously billed for phone calls not made if a plane departure is delayed due to a mechanical failure these are rather ordinary annoyances which we have come to accept as normal occurrences. Contrast this with failure of a food product. If foreign matter is found in a food if a product is discolored or crushed if illness or discomfort occurs when a food product is eaten the consumer reacts with anger fear and sometimes hysteria. The offending product is often returned to the seller or a disgruntled letter is written to the manufacturer. In an extreme case an expensive law suit may be filed against the company. The reaction is almost as severe if the failure is a difficult to open package or a leaking container. There is no tolerance for failure of food products.

**Biosensors in Food Processing, Safety, and Quality Control** Mehmet Mutlu, 2016-04-19 This book details the latest developments in sensing technology and its applications in the food industry profiling the improvements achieved in recent years for better food quality safety processing and control. Topics discussed include the use of biosensors for the assessment of natural toxins in food and for pesticides and foodborne pathogen.

**Bioprocesses in Food Industry** Ray Underwood, 2018-10-08 Bioprocessing has been used for a long time in the production of food. In fact as early as 3500 B.C. Sumerian brewers were using bioprocessing to create a popular beverage many drinkers still enjoy today. Bioprocessing as the name suggests uses living organisms and their components in the creation of new products. Bioprocessing is often used to manufacture pharmaceuticals sustainable materials alternative fuels and even many of the foods we enjoy. Biotechnology as applied to food processing in most developing countries makes use of microbial inoculants to enhance properties such as the taste aroma shelf life texture and nutritional value of foods. The process whereby microorganisms and their enzymes bring about these desirable changes in food materials is known as fermentation. Fermentation processing is also widely applied in the production of microbial cultures enzymes flavours fragrances food additives and a range of other high value added products. These high value products are increasingly produced in more technologically advanced developing countries for use in their food and non food processing applications. Many of these high value products are also imported by developing countries for use in their food processing applications. Food biocatalysts and bioprocessing industries face great challenges in order to develop and establish systems to develop high quality safety foods as well as feeds and other industrial goods environmentally acceptable and in a sustainable way. The text is supported by numerous clear informative diagrams. The book would be highly useful to the postgraduate students and researchers of applied biology biotechnology microbiology and biochemical engineering.

**Quality Control in the Food Industry** S. M. Herschdoerfer, 1972      *Quality Management Handbook, Second Edition,*

Raymond Kimber, 1997-08-29 Affords an advantageous understanding of contemporary management and total quality systems without excessive employment of advanced mathematics directing managers in the implementation of the basic quality framework that will lead to improved production and increased profits through sound quality practices Provides practical applications in a wide variety of industrial financial service and administrative systems and shows how to prepare for quality audits product meetings and production discussions Features 21 new chapters      *Quality Control in the Food Industry* S. M. Herschdoerfer, 1968      *Food Industries Manual* Christopher G.J. Baker, M.D. Ranken, R.C. Kill, 2012-12-06 It is a measure of the rapidity of the changes The work has been revised and updated and taking place in the food industry that yet another following the logic of the flow sheets there is some edition of the Food Industries Manual is required simplification and rearrangement among the chap after a relatively short interval As before it is a ters Food Packaging now merits a separate pleasure to be involved in the work and we hope chapter and some previous sections dealing mainly that the results will continue to be of value to with storage have been expanded into a new readers wanting to know what how and why the chapter covering Food Factory Design and Opera food industry does the things which it does tions For this edition we have made a major depar There is one completely new chapter entitled ture from the style of earlier editions by comple Alcoholic Beverages divided into Wines Beers tely revising the layout of many of the chapters and Spirits There is a strain of thought which Previously the chapters were arranged as a series does not yet consider the production of those of notes on specific topics set out in alphabetical drinks to be a legitimate part of the food industry order in the manner of an encyclopaedia

*Food Industries Manual* M. D. Ranken, 2012-12-06 It is a pleasure to be involved in yet another edition the enforcement system and its officers and the of the Food Industries Manual and to know that the appearance of many more consultants advisors and training specialists all claiming to assist manu book remains in sufficiently high demand for a new edition to be necessary The work of revision and facturers in the discharge of what are described as updating has been rewarding to us and we hope that new and onerous duties In reaction to all this food the result will be found at least equally helpful to manufacturers are learning so to order their opera those who use it tions that their reliability and their commitment to In the five years since the last edition the growth quality and good workmanship can be routinely of the chilled foods sector in both quantity and demonstrated The touchstone of this has become quality with much more refrigeration available accreditation of the manufacturer s systems by an and in use with close control of refrigeration tem independent authority for instance that they peratures storage times storage temperatures conform with the International Standard for tra Sport conditions and display conditions and Quality Systems ISO 9000 or its British Standard with better information on labels and elsewhere equivalent BS 5750 These and related matters are about shelf life and the handling of products has dealt with in another new Chapter on Food Issues      **Applied Reliability and Quality** Balbir S. Dhillon, 2007-02-23 Billions of dollars are being spent

annually world wide to develop reliable and good quality products and services Global competition and other factors are forcing manufacturers and others to produce highly reliable and good quality products and services This means that reliability and quality principles are now being applied across many diverse sectors of economy and each of these sectors robotics health care power generation the Internet textile food and software has tailored reliability and quality principles methods and procedures to satisfy its specific need Reliability and quality professionals working in these areas need to know about each other s work activities because this may help them directly or indirectly to perform their tasks more effectively Applied Reliability and Quality Fundamentals Methods and Procedures meets the need for a single volume that considers applied areas of both reliability and quality Before now there has not been one book that covers both applied reliability and quality so to gain knowledge of each other s specialties these people had to study various books articles or reports on each area As the first book of its kind Applied Reliability and Quality Fundamentals Methods and Procedures will be useful to design engineers manufacturing engineers system engineers engineering and manufacturing managers reliability specialists quality specialists graduate and senior undergraduate students of engineering researchers and instructors of reliability and quality and professionals in areas such as health care software power generation robotics textile food and the Internet

**Food Industry** Innocenzo Muzzalupo, 2013-01-16 Due to the increase in world population more than seven billion inhabitants the global food industry has the largest number of demanding and knowledgeable consumers This population requires food products that fulfill the high quality standards established by the food industry organizations Food shortages threaten human health and also the disastrous extreme climatic events make food shortages even worse This collection of articles is a timely contribution to issues relating to the food industry The objective of this book is to provide knowledge appropriate for students university researchers and in general for anyone wishing to obtain knowledge of food processing and to improve the food product quality

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