



Tetra Pak® Services

Tetra Pak® Services cover every aspect of your food production, from daily routines to business insights. Our tailored service solutions improve performance, optimise costs and ensure food safety throughout the lifecycle of your operation. With Tetra Pak as your partner, you get the people, portfolio and presence to achieve your performance goals.



















Tetra Pak® Training Services

Quality assurance training courses build and maintain your staffs skills to consistently secure your desired product quality

TRAINING OUTCOMES:

- Understand food safety and hygiene guidelines
- Meet Food safety and Food quality legislation
- Avoid product quality problems
- Reduce cost caused by quality deviations
- Build awareness of quality and it's impact in your daily production



















Tetra Pak® Training Services





















Basic Aseptic Technology





TARGET GROUP

Operators, Technicians, QA/QC, Supervisors, Managers

DURATION

3 davs

DESCRIPTION

This training block is designed to give the theoretical knowledge of aseptic processing and packaging.

It covers through the fundamentals of each process stage of aseptic production.

CONTENT

- Introduction of aseptic production
- Plant hygiene
- Hygienic design of aseptic production line
- Cleaning
- Raw materials
- Pre-processing
- UHT process
- Aseptic transfer
- Aseptic filling and packaging

TRAINING SERVICES













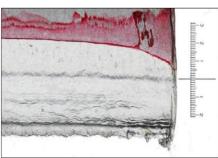


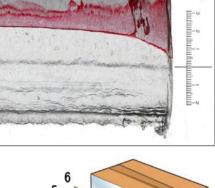
Package Integrity

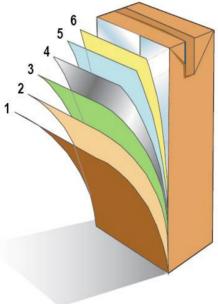












TARGET GROUP

QA/QC, Supervisors, Managers

DURATION

3 davs

DESCRIPTION

This training block is designed to give the theoretical & practical knowledge of Package Evaluation.

It covers hands on activities with defective packages, layers of packaging material, types of defects, troubleshooting and best practices.

CONTENT

- Foundation (aseptic principle, packaging material structure)
- Basic understanding of sealing systems.
- Package forming
- Transversal sealing
- Longitudinal sealing
- Conductivity and red ink testing
- Opening and closures
- Troubleshooting on PE issues
- PE sampling & checks schedule.
- Best practices.



TRAINING EXPERT SERVICES SERVICES















Good Manufacturing Practices







QA/QC, Supervisors, Managers

DURATION

3 days

DESCRIPTION

This training block improves competence on daily and weekly care and give an insight on what could go wrong if practices are not followed







CONTENT

- Basics for Aseptic processing and packaging
- Production line from raw material to finished product
- Principles of obtaining a microbiologically safe product
- Quality assurance versus quality control
- Importance of cleaning and hygienic practices in food processing plant
- The basics steps of a whole production cycle
- Critical control points in aseptic environment
- Package Integrity best practices

TRAINING SERVICES















Manage Aseptic Production





/	Maintananan annt	Service work
/	Maintenance cost	Spare parts
	Running cost	Operator cost
Product Product Televisia Charakurat Con		Plant utilities
		Consumables
	Waste cost	Material waste
		Product waste
	Direct capital cost	Equipment capital cost
		Area oost
		Spare part capital cost

TARGET GROUP

Plant manager, Production Supervisor/Team leader, Maintenance & Quality Supervisor

DURATION

3 days

DESCRIPTION

This training block is designed to provide increased understanding of aseptic processing and packaging, with the goal of producing long life products with high and consistent level of quality to an optimal cost. It analyzes real-world cases and examples to gain insight into factors that impact aseptic product quality and production performance, ultimately influencing operational cost.

CONTENT

- A practical approach to aseptic production gives an overview of aseptic production principles. The complete product line will be addressed, from raw material to external handling & storage.
- Quality systems, competence development and maintenance management helps participants identify where their operations stand in terms of aseptic performance and where they want to go. Improvement opportunities, best practices and industry benchmarks are presented and discussed.
- Operational cost analysis is focused on improvement identification and priority, based on the theory behind Operational Cost Reduction.

TRAINING SERVICES









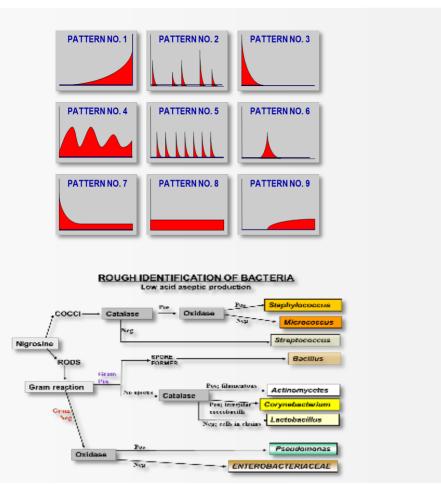


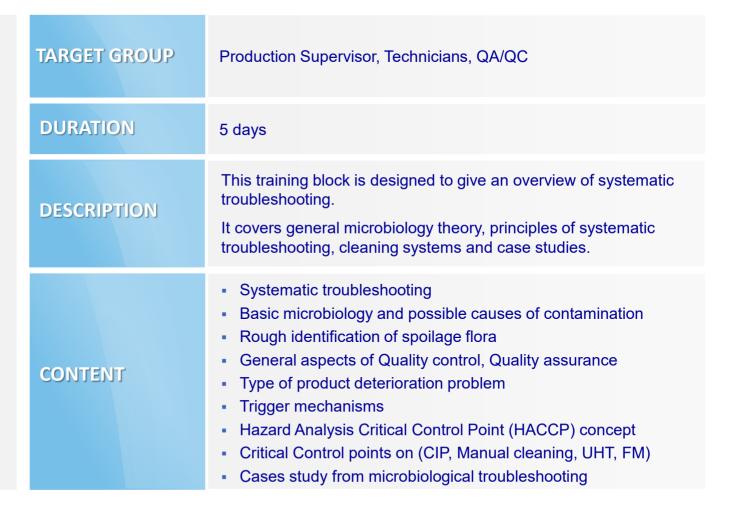




Systematic Troubleshooting

















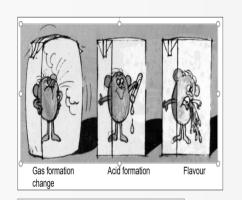






Laboratory Practices

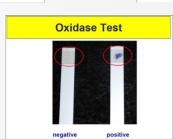




Catalase Test







TARGET GROUP QA/QC Staff DURATION 5 davs This training block is designed to give theoretical and practical knowledge of rough identification of bacteria. DESCRIPTION It covers general microbiology, rough identification and principles of systematic troubleshooting. Introduction to Aseptic Processing and Packaging Quality Assurance for Low Acid Foods and/or High Acid Laboratory Techniques Media Preparation CONTENT Laboratory Practical Work Rough Bacterial Identification Introduction to microbiological problem solving Package Integrity best practices

Incubation Sampling Plan

TRAINING SERVICES

Agar-plate test















Tetra Pak® Expert Services provides expertise to meet high demands

Our experts around the globe can help you to analyse and improve your operations to deliver safe and high-quality products.



VIEW OUR FOOD **SAFETY & QUALITY OFFERINGS**

















Tetra Pak® Expert Services





























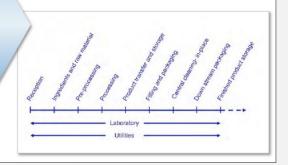


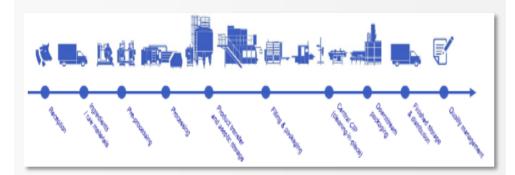
Start-up Quality





- ► Sampling routines
- ▶ Record keeping
- ► Traceability
- ► Release procedures





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CUSTOMER	relevant for ex
PROFILE	new more com

This service is primarily for new customers & can also be relevant for existing customers that change their production to new more complex/sensitive products or new equipment/technology.

DESCRIPTION

Start-up Quality is an on-site activity to support the customer to implement relevant best practice quality routines and procedures.

DELIVERY

- Implement quality routines & procedures based on customer situation
- Establish routines & procedures based on Tetra Pak best practice
- Train and Coach QA/QC personnel and operators to ensure implementation
- Follow-up implementation

CUSTOMER BENEFITS

- Consistent and desired end-product quality from the start
- Increased productivity during start-up
- Enhanced quality competence and awareness
- Efficiently implemented best-practice quality routines and procedures















Aseptic Review Process







CUSTOMER For customers who would like to have a guick overview of certain **PROFILE** areas in their plant with respect to quality prameters. This service offers a standardized review on plant with high level **DESCRIPTION** recommendations based on biggest impact and guickest results. • Areas of the plant that are critical to the aseptic process are reviewed scoring each area according to a framework of best practices. The specialist summarizes the review in an executive summary **DELIVERY** that includes a suggested action list. A dashboard is also provided which helps monitoring of improvements. After six-months follow-up is recommended for low-scoring areas. The scores and executive summary are updated after the follow-up in order to track quality progress. Standardized review focusing on achieving guick results **CUSTOMER** Short review for minimal disruption. **BENEFITS** Suggested action list is shared after the review

A dashboard is provided to monitor the improvements









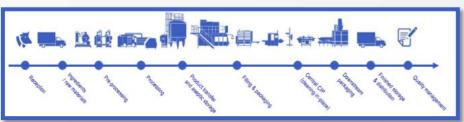






Plant Quality Review (PQR) -





The PQR evaluates the above modules using the following criteria:

- Procedures (written and applied)
- Production / Operation
- Process controls
- ► Staff, competence
- Quality Assurance

- Quality Control
- Cleaning procedures
- Hygiene / Housekeeping
- Recording systems

CUSTOMER PROFILE	For customers who suffer from quality issues, having high and unknown cost of quality, runs high risk of food spoilage and recently changed leadership.
DESCRIPTION	A thorough analysis of quality operations across the plant from raw material to end product based on various criteria.
DELIVERY	 Pre-agreed areas of the plant are reviewed in detail based on criteria varying between process control to quality control. Review is done with interviews, site visit and production observations. After the service, a thorough quality report, including gap analysis, observations, comments and improvement opportunities as well with a detailed recommendation list is shared. Periodic follow-up is recommended to support in turning recommended actions into long-term improvements.
CUSTOMER BENEFITS	 Identifies plant critical areas Compares the customer's quality procedures to known best practice, identifying gaps Assesses the staff capability with regard to quality procedures Outlines practical actions to improve quality and lower risk of quality issues occurring















Consumer Complaint Analysis





CUSTOMER PROFILE	Customers having a recent rise in consumer complaints or interested to improve quality KPI on the number of claims being received.
DESCRIPTION	Analysis of existing consumer complaint data and updating of consumer complaint categorisation, to ensure for better traceability.
DELIVERY	 Pre-agreed areas of the plant are reviewed in detail, based on FPS Specialist thoroughly monitors consumer claims and incubation data in the plant. Claims and incubation result relation to equipment and filling machine data is cross checked. Based on analysis result, points to focus on are determined (i.e. Filling operations, processing or laboratory practices) Actions and follow up items are defined.
CUSTOMER BENEFITS	 Opportunities to reduce number of claims Reduced cost of non-quality Basis for continuous improvement plan for claims















Digital Quality Sampling System







CUSTOMER Customers who would like to follow aseptic performance of their **PROFILE** lines in an accurate and automated manner DQSS is a quality module software connected to PLMS capturing quality data throughout the value chain. Production line & **DESCRIPTION** laboratory database are integrated with warehouse and market data • System requirements are analysed and necessary hardware requirements to be shared. (i.e. Sampling unit, barcode reader, Domino printer) • Data on sampling & resampling, package check routines, claims **DELIVERY** handling procedures are collected to set the system. Installation of necessary hardware and software is done. Staff (i.e operators and lab personel) are trained. Data collection is initiated Joint reviews can be done quarterly or monthly to analyse the data reported and improvement actions can be put forward. User friendly quality module to track aseptic performance Detailed measurement of sampling effort and accuracy **CUSTOMER**

Manual data entry minimised as well as risk of human errors

Regular reviews support execution of identified improvements

Data is easily accessed to review quality performance











BENEFITS





CIP Validation





CUSTOMER PROFILE

Customers having: a. new lines installed requiring new CIP procedures to be developed. b. new mix of products & need to secure good cleaning, c. capacity contraints & want to increase available running time without comprimising the CIP result.

DESCRIPTION

Cleaning Validation is a service to verify the effectiveness of the cleaning procedure for removal of product residues & to establish a documented evidence that the cleaning process removes residues to predetermined acceptable level.

DELIVERY

- Mapping of CIP activities across the plant as well cehcks on CIP utilities are done
- Over an agreed period of time follow ups are conducted presenting a report on;
 - Progress on implementation of actions
 - Analysis of CIP data since first visit

CUSTOMER BENEFITS

- Reduced risk of unsterilities due to poor cleaning
- Reduced production interruptions due to poor cleaning
- Documented CIP procedures















Laboratory Services





CUSTOMER PROFILE	Customers who is interested to have an expert opinion on microbiological and package integrity analysis or not having enough competence for self evaluation
DESCRIPTION	Rough identification of total spoilage organisms as well as sealing evaluation can be conducted in our laboratory located in Pinetown, South Africa. Analyzes results are presented in a report.
DELIVERY	 Rough microbial identification of total spoilage organisms; e.g. Enterobacteriaceae, Bacillus, Micrococcus, Coryneform Acetic Acid Bacteria e.g. Gluconobacter Alicylobacillus Lactic acid bacteria Heat resistant spores Package Integrity: red ink test Tear down test: Longitudinal (LS) and Transversal Sealing (TS) Red ink injection on LS Dissolving test
CUSTOMER BENEFITS	 Quick results with dedicated resource Aseptic production know-how Ability to link analysis resuls with possible root-causes

















Quality Assessment

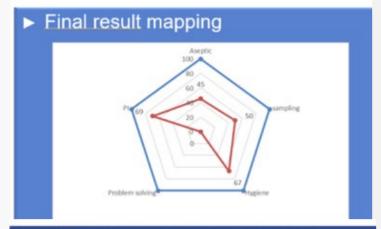






Written test

Practical Assesment



Strength: Package integrity, Hygiene and cleaning GAP: Problem solving, Aseptic Technology, Sampling Training Proposal: Troubleshooting course

CUSTOMER PROFILE

Customers who would like to understand the competence development needs of their operators and QA/QC staff when it comes to aseptic production.

DESCRIPTION

A service to evaluate the operators and QA/QC staff with a written and practical assessment to be able to see the improvement areas and to create the correct competence development map.

DELIVERY

- Operators and QA/QC staff are assessed with a written test about aseptic technology,sampling, hygiene & cleaning, problem solving and package integrity.
- Operators are practically assessed on Package Integrity where they need to demonstrate necessary tests as well to answer certain questions verbally.
- QA/QC staff will be assessed on bacterial identification as well as package integrity (in case they do conduct tests in the lab)
- Recommended competence development activities will be provided as a result of the assesments

CUSTOMER BENEFITS

- Increase workforce competence, safety and motivation
- Ensure food safety
- Get a clear competence development map















Contact us to get more information about our services

For more information about **Tetra Pak® Services** kindly contact your local Tetra Pak Services Sales Manager or visit our website.

> www.tetrapak.com/contact Visit our website to get in touch











