FEST

# A way towards Factory Competence Tools and methods for the qualification process



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FESTO

# Festo - a success story



Festo was founded in 1925 in Esslingen by Gottlieb Stoll

## Founding mission

To develop, produce and sell high-quality woodworking machinery

## • 1955

Festo is one of the first companies to recognise the potential of pneumatics and begins work on the development, production and sales of pneumatic components, thus opening up a new era

## • 1965

Development of a new division for learning materials and seminars (Festo Didactic)

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# Festo - an independent family company



Festo AG –
Industrial Automation and Didactic divisions
1.65 billion € turnover in 2007
internationally in 176 countries
Innovative
2800 patents world-wide
Approx. 100 innovations each year
Research and development budget 6.5% of turnover

A learning company

12,800 staff world-wide Training budget 1.5% of turnover Committed to the environment and to quality Quality and environmental certificates (ISO 9001, VDA 6.1/6.4, ISO 14001)

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## **FESTO**

# Festo - a company with global operations





# Festo Industrial Automation

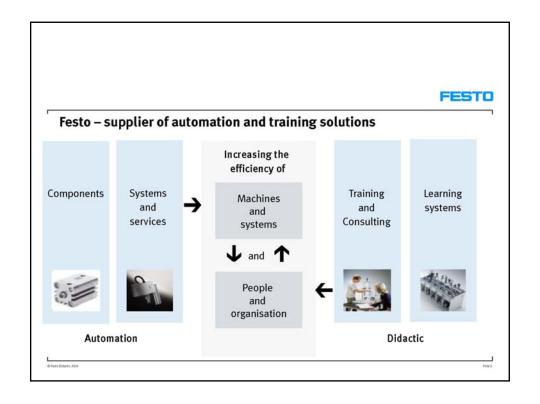
- A leader in industrial automation with pneumatic and electrical drives
- Strong industrial background with numerous production locations world-wide
- Recognised for its corporate culture which promotes education, learning and knowledge

## **Festo Didactic**

- Member of the Festo Group
- Training and consultancy for manufacturing industrial companies
- Training equipment for institutes providing basic and vocational training

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# Festo – limitless and individual Partner for more productivity With 57 companies, world-wide in over 176 countries and 250 locations Over 1,000 sales and project engineers Consultancy and service Online shops Web portal with tools

The challenges of industrial production

# Global market



# A global network is coming into being

- Explosion in communications and data availability
- Intensive cultural exchange through travel opportunities and media
- Free trade in good and services
- Amalgamation of companies to form global units
- Internationally-operating private-enterprise capital market

# Global but individual competition

- · Production processes are changing
- Mass customisation instead of mass production

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# **Automated production**

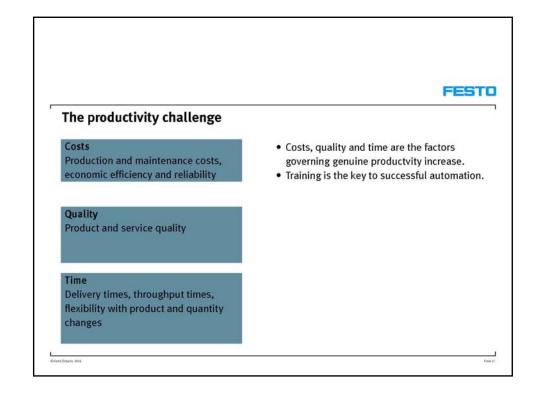


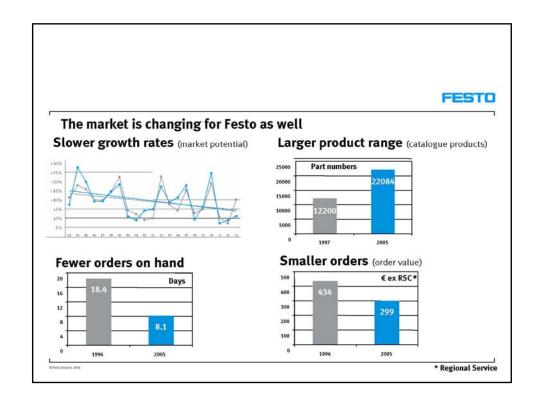
# Automation

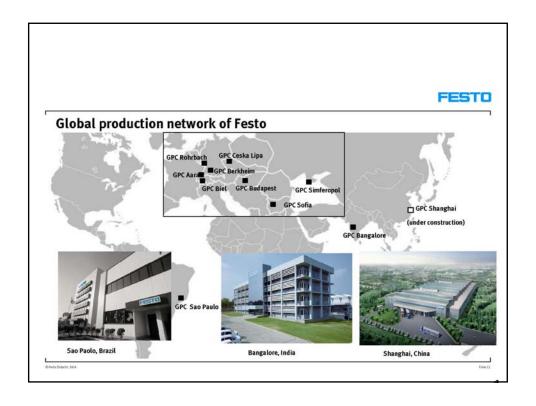
- From economy of scale to economy of scope
- Flexible production with highly-automated equipment
- Labour-intensive production is relocated or automated
- Boosting productivity through training and knowledge
- Training as an effective tool to boost competitiveness

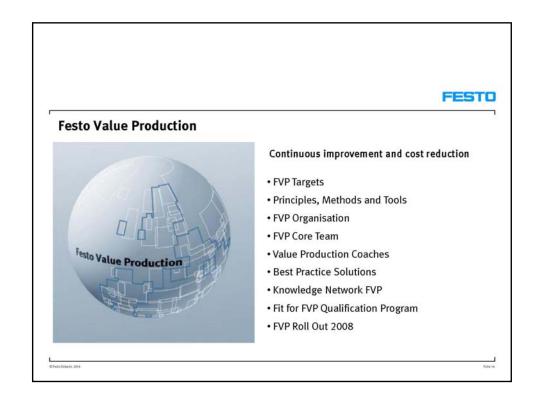
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## **Festo Value Production**

A production system describes the methods to use in production and the standards on which these are based.



## global:

In our world-wide production- and logistics network we can make allowance for regional requirements and offer our customers extremely short delivery times.



#### sustainable

With a continuous improvement process, we create standards and continuously develop these further. In this way, we are able to design today our processes for the products of tomorrow.

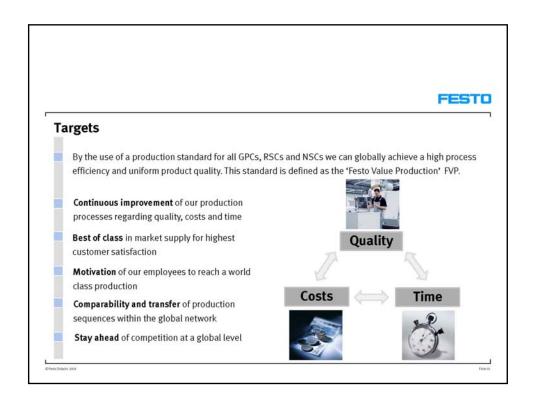


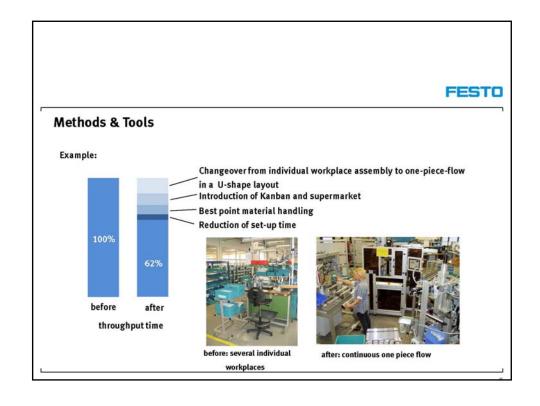
## holistic:

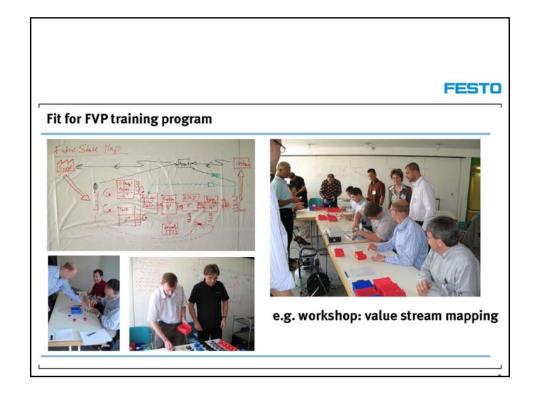
"The whole is greater than the sum of its parts ". FVP places its methods in a meaningful context in order to optimise our value-creation chain.

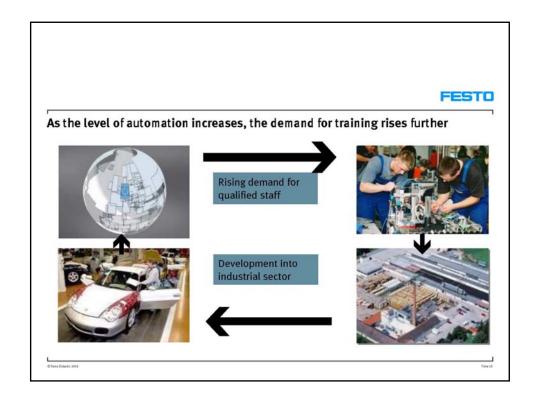
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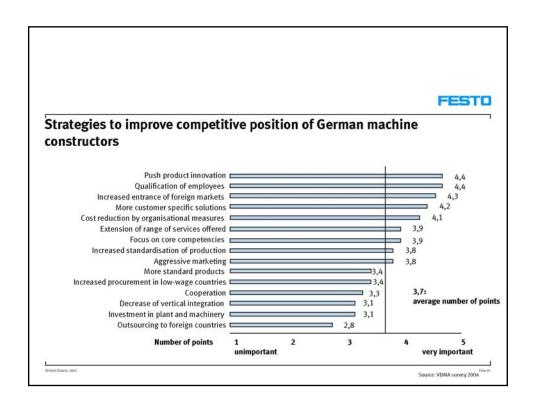
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# Training in order to safeguard competitiveness

# 4 factors

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# Training in order to safeguard competitiveness

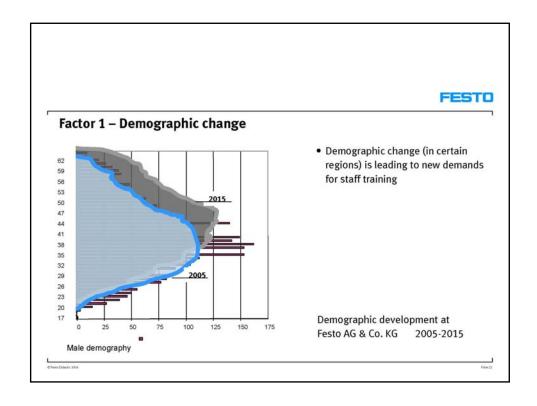


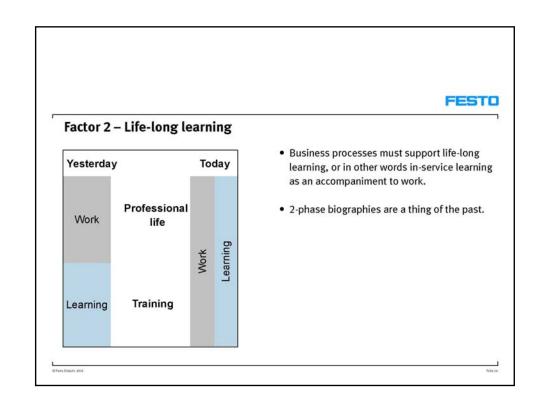
## Factors:

- 1. Demographic change
- 2. Life-long learning
- 3. Knowledge as a competitive factor
- 4. The key to success: Learning transfer

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# Factor 2 - Life-long learning



# The competence areas that count today are as follows:

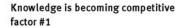
- Capacity for autonomous action
- · Learning how to learn
- Problem-solving
- Cooperation/teamwork
- Communication
- · Accepting/bearing responsibility

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# Factor 3

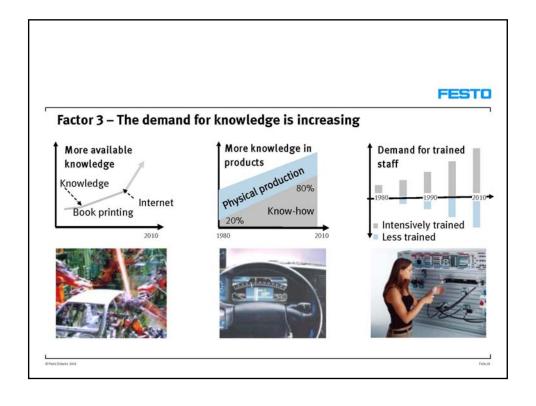




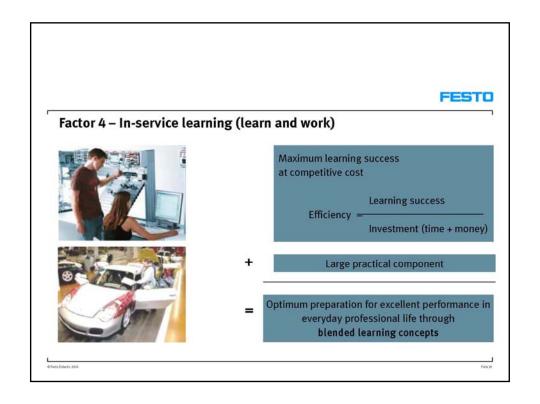
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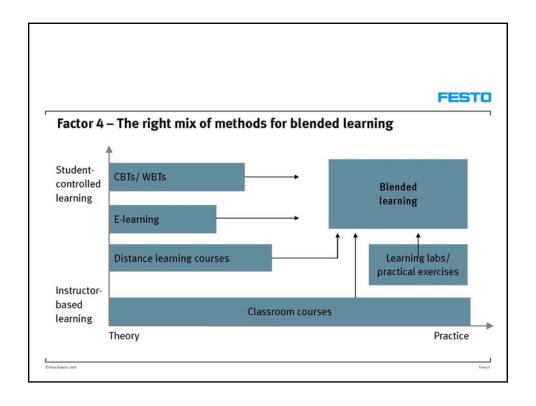
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# The things that really count ...

## **FESTO**

# **Training: Festo's offer towards Factory Competence**



- More than 100,000 training days per year in more than 2,900 seminars
- Qualified Festo trainers offer modular and quality assured training content in more than 30 languages

#### People:

Problem solving techniques, moderation of teams, efficient communication, intercultural competence

## Technology:

Pneumatics, hydraulics, control systems, PLC/SPC technology, robotics, sensors

#### Organisation:

Process optimisation, Kanban, Set-up time reduction, Value stream analysis, Lean Design

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# The things that really count ...



# **Industrial Consulting: Helping Industry to higher Productivity**



- · More than 230 consulting projects with 150 customers
- Know-how and experience with the Festo production system

# Lean Production:

Introduction of a new production system, value stream analysis, set-up offensive, segmentation, bottleneck-oriented production control

## Purchasing and logistic:

Storage and delivery strategy, supplier assessment and development, make or buy, purchasing strategy and organisation

## Sustainable improvement culture:

Reduction of wastes, problem solving techniques, management and employee CIP, anchorage of the new innovative approaches within the company

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