Festo Didactic. The Solution Provider for African Technical Education

Enabling people to shape the future
The Holistic Approach of Festo

Through a remarkable interplay of Automation and Education, we increase productivity and employability world-wide.
Festo Didactic Facts & Figures

- 808 Employees
- Turnover 143 Mio. Euro
- Customers > 56,000
- Family-owned company
- Implementation of Dual Education System at F-CN, F-US, F-IN, F-HU

- Vocational schools
- Colleges
- Universities
- Research Institutions
- Private education institutions
- Governmental Organizations
- Non-Governmental Organizations
- National Ministries
- Industrial companies

- 50,000 Training Participants
- 250 Locations Worldwide
- Local Companies in 61 Countries

Quebec City, Canada
Denkendorf, Germany

808 Employees
Customers > 56,000
Turnover 143 Mio. Euro
Family-owned company
Implementation of Dual Education System at F-CN, F-US, F-IN, F-HU

Vocational schools
Colleges
Universities
Research Institutions
Private education institutions
Governmental Organizations
Non-Governmental Organizations
National Ministries
Industrial companies

Quebec City, Canada
Denkendorf, Germany
Skilled People Shape the Future

Innovation Power, Employability, and Productivity Through Technical Education.

Secondary School.
Get Inspired by Technology

- Secondary schools
- Individuals

Technical Vocational Education and Training (TVET).
Fundamental Skills for Employment

- Vocational schools
- Colleges/technical schools
- Industrial training company
- Governmental organizations
- Non-governmental organizations
- National ministries

Tertiary Education.
In-Depth Learning and Research

- Universities
- Research institutions
- Governmental organizations
- Non-governmental organizations
- National ministries

Industrial Workforce.
Update and Upskill

- Industrial companies
- Private training organizations

Get Inspired by Technology

In-Depth Learning and Research
Solution for African Technical Education - Context

➢ 2 year ago, we have developed pedagogical approach “outside the walls“ for the technical education

➢ This approach will be relevant for the African specificity (people's needs, purchasing power, volume of people to be trained,...)

➢ The final objective is to maximize the number of trainees and optimize the TVET investments
Employment - Household electrician skills

The profession of electrician can be made up of three main activities:

- **Realization of an electrical installation**: Implanting, laying, installing electrical equipment
  Wiring and connection of electrical equipment

- **Commissioning of an electrical Installation**: Realize verifications, adjustments, functional tests

- **Maintenance of an electrical Installation**: Execute a preventive maintenance operation
Professional perspective

Team leader

Project manager

Building or industrial electrician

Entrepreneur

Household electrician
Craftsmanship - Household electrician training – Outside the walls pedagogy

1. Knowledge
   - Video trainings made by professional teacher, e-learning

2. Know how
   - Intensive boot camps to practice

3. Household electrician
   - 1st qualification – Ready to work
Household electrician training – The knowledges acquisition

➢ Knowledge acquisition is done through online media

➢ Media accessible on all devices

➢ Festo has a digital learning platform for technical professions – **Festo LX**

➢ The teacher can monitor the students evolutions

➢ **Festo LX** is able to validate/certify the success in the learning phase

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<th>E-Learning on Festo LX</th>
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<td>Electrics 1 - Circuits, Conductivity, Ohm's Law</td>
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<td>Electrics 2 - Electric Charge, Capacitors, Coils</td>
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**Registration is free and a trial period is available on request!**
Household electrician training – The know-how acquisition part 1

➢ Products adapted to the training specification

➢ Facet products allow to apply the knowledge gained during the E-learning phase on a hybrid mode

➢ Reinforcement of the fundamental notions to know in electricity

➢ Compatible with Festo LX:
  - ELab courses Learning Hardware-related hands-on courses
  - Simulations Hybrid learning with simulation hard- & software
  - Online evaluations, assessment, reporting, certification
Household electrician training – The know-how acquisition part 2

➢ Practice of future job
➢ Use of electrical equipment identical to that found in a company
➢ Learning and practicing various electrical installations
➢ Teachers can create own on-line evaluations to validate the practice
1st qualification – Ready for a first job!
And now...

- We are in contact with African companies to produce pedagogical systems in Africa

- We will present this pedagogical approach during “E-learning Africa” in Kigali

- We have already propose this concept in some projects focusing on employability

- We aim to support access to employment for more people

- We are at your disposal to promote the outside the walls pedagogy approach

- We are available to develop this concept for other jobs (renewable energy, welding, climatic and thermal engineering, ...)
