



## Fit for the future – thanks to modern practice-oriented education

Investments in technical training and science are the prerequisite for economic growth and wealth creation. The future can only be moulded by the trained hands and minds of qualified scientists, engineers, technicians and skilled workers.

With innovative experimenting and training systems we ensure the preconditions for an excellent education that focuses on high-quality qualifications and hands-on skills. That's how theory can be transferred into everyday on-the-job applications.

#### Your advantages:

- Technology-oriented education
- Highly skilled specialists for industry, science and research
- Brief effective training

### LEARNING, EXPERIMENTING, UNDERSTANDING

### The guarantee for success is combining theory with practice

The synchronizing of theory and practical application makes learning with our systems fast and more efficient than with any other competing products.

- Safe and self-explanatory experiment set-ups
- Positive learning experience
- Excellent training and support for the instructors





### Tailor-made concepts for your educational project

In the internationally operating Lucas-Nülle Group comprising three individually specialized companies, we bundle our know-how and experience to provide even better and more customized solutions. Our strengths are our ability to deliver ready-made curricula and efficient, didactically designed solutions, while also providing intelligent support during their technical implementation. We do all this while working very closely with responsible parties from politics and industry.

- · Natural science education at schools, colleges and universities
- Technical education at universities, colleges and industrial training centres
- World-wide more than 145,000 satisfied clients
- More than 35 languages in over 95 countries
- Certified sales partners in more than 70 countries











### Satisfied Customers

Southern California Edison, USA

FAW- VW, China

Lawrence Hall at UC Berkeley, USA

Bauman University Moscow, Russia

IPRC South, Rwanda

Buffalo State University, USA

Université d'Alger USTHB, Algeria

ONDA Airport, Morocco

Toyota St. Petersburg, Russia

University Lahore, Pakistan

Siemens Training Academy, Germany

University of Cambridge, England North Alberta Institute of Technology, Canada

**GMI** Malaysia

Porsche AG, Germany

CFDT Senegal Japon Dakar, Senegal

King Saud University Riyadh, Saudi Arabia

Osun College of Technology, Nigeria

Ashgabat Military Academy, Turkmenistan BASF Ludwigshafen, Germany

Future University, Cairo, Egypt

CERN – Nuclear Research, Switzerland

Lycée Bel-Val, Junglinster, Luxembourg

UKZN Durban, Smart-Grid Research Centre, South Africa

Shanghai Second Polytechnic University, China

Audi UTP Puebla, Mexico

King Mongkut Institute of Technology, Thailand Universidad de los Andes, Colombia

Instituto Tecnológico de Monterrey, Mexico

CTA Bruxelles, Belgium **UET Peshawar, Pakistan** 

Royal Guard College, Oman

Ministerio de Educación, Costa Rica

ISPTEC Luanda, Angola

Polytech International Tunis, Tunisia

Petroleum Institute Kigumba, Uganda

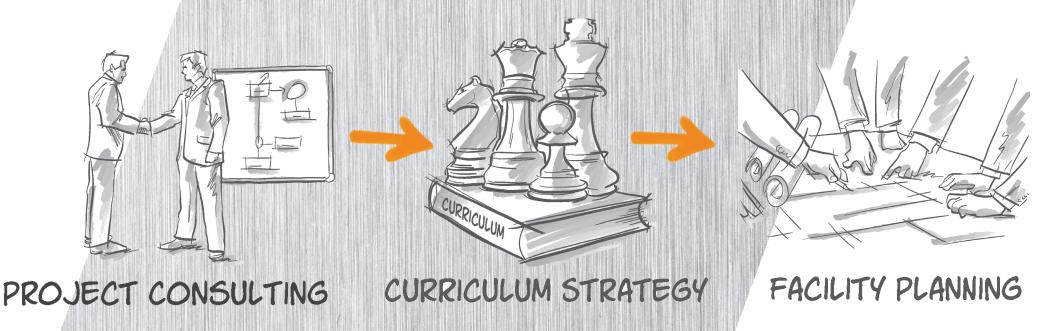
Audi AG, Germany

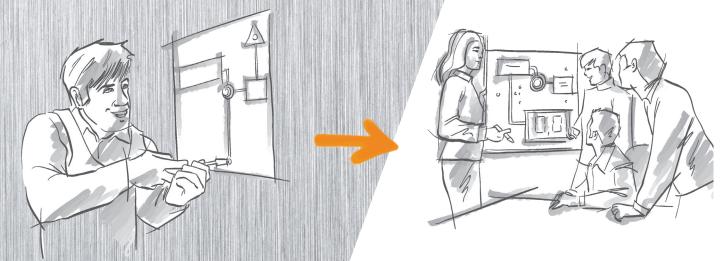
College No II, HCMC, Vietnam

Universidade Eduardo, Mozambique

Since 2007 we have been cooperating with Lucas-Nülle, Germany, in bilateral and academic projects. Through mutual collaboration, we have successfully established training centres and e-learning programmes. Our university acknowledges the high standard of the training equipment provided.

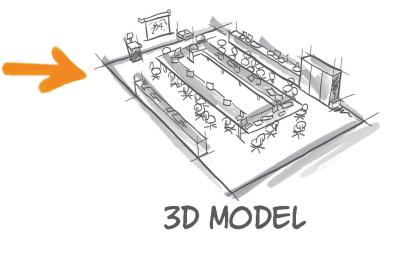
Prof. Dr. Teravuti Boonyasopon, KMUTNB President





INSTALLATION / IMPLEMENTING

TECHNICAL INSTRUCTION





#### 9 steps to success

As your reliable partner with international experience we assist you in the planning and implementation of your project. We focus our know-how and experience on finding a one-stop total solution covering all relevant areas: individual consultation and planning, efficient training and personal one-on-one support on location. And even after the project has been completed, we are the experts you call on for help, if and when you need it.







The best address for science training and education – PHYWE is the solid and reliable partner at your side!

For more than 100 years PHYWE in Göttingen has been developing and producing equipment, experiments and solutions in the natural sciences for cuttingedge teaching and research in schools, universities and institutes all over the world. Whether it is traditional instruction with standard experiments for students and demonstration, wireless instrumentation or new learning scenarios such as Instruction 3.0, PHYWE stands for quality, reliability and expertise of the highest calibre.

3,000 experiments from every area, and each conforming to standard syllabuses













after-sales service

demonstration experiments, modern measurement technology, experimentation literature and a comprehensive pre-sales and



# Excellence in Technology & Training Solutions

# Training systems for skilled workers, technicians and engineers



**Building Management Systems** 



Power Engineering / Smart Grid / Micro Grid



Renewable Energies



Transformers / Power Electronics / Machines



EloTrain - Plug-in System



Communication Technology



Process Control



Process and Chemical Engineering



Machinery and Systems Engineering Pneumatics / Hydraulics



Machinery and Systems Engineering



Microcomputers



Automation Technology



Automotive Technology



**HVAC** and Refrigeration



Lab Systems



VOCANTO®





# Technical training systems on the highest level

The Lucas-Nülle company provides premium training systems and laboratories for technical training and engineering studies which combine theoretical background information and practical applications in an innovative way.

The experimentation systems totally simulate real working situations that students will confront later in their working lives. That is how the students develop the necessary hands-on skills needed for future success on the job.

- Computer-assisted training and experimentation systems
- E-learning courses including animations
- Training systems with industrial components
- Administration, customization, testing and evaluation with the Classroom Manager



### Specialists for training and business development

INTEA provides customer-specific training and further education for industry and trade organizations.

- Training and Business Development
- We offer a wide spectrum of options for carrying out effective and equally cost-efficient training to improve your business.
- Face-to-face training for technical content as well as process-controlled procedures in service and sales
- Virtual Classroom Training ideally combines the benefits of face-to-face training and modern mobile web technology
- INTEA can plan, finance, construct and operate your new training centre, anywhere in the world
- Facilitates product launches and special events, combining training activities, invitation management and logistical organization







### **PHYWE**

#### **Education in the natural sciences**

- 01 Experiments & solutions conforming to standard curricula
- 02 Modern data logging systems
- 03 Innovative learning concepts with Instruction 3.0
- 04 Comprehensive pre- and after-sales service

#### Laboratories for all vocational and engineering subjects

- 01 Utilization of industrial components
- 02 Combination of theory & practical applications
- 03 Training on industrial systems
- 04 E-learning courses available in your native language



### LEARNING, **EXPERIMENTING, UNDERSTANDING**

#### Our integrated solution

From full installation of a laboratory to the delivery of hardware and software, all the way to on-site assembly and seminars, we provide everything you need from a single source – pre-wired and turn-key!

### **∧INTEA**

#### **Training und Consulting**

- 01 Seminars in your native language
- 02 Custom fine-tuning to your curricula
- 03 Training face-to-face on site
- 04 All complete with industrial components

**GUARANTEED** QUALITY



The products and training systems are engineered and manufactured in Germany. We take pains to supply the highest quality and in every detail: from the life-span of our products to the sustainability of the overall solutions, while upholding the environmental awareness of everyone involved.

Not least thanks to our know-how, flexibility and quality management according to DIN ISO 9001.

















#### **PHYWE Systeme GmbH & Co. KG**

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