21st TVET Century Learning Solutions

Innovative Technical Educational Solutions from Labtech The Global Technical Education

Providing Training Solutions for:

- Automotive and Transportation Technology
- Autotronics for modern vehicles
- Electronics and Communication Technology
- Electrical and Automation Technology
- Building Management Systems
- Air Conditioning and Refrigeration Technology
- Renewable Energy and Green Technology
- Computer and Networking Technology
- Digital TVET Content

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Come see us at W30 for Digital TVET Solutions And Training Systems

Innovative 2D and Virtual 3D Digital TVET learning Solutions that can change the way we teach and learn.

Total Technical Solutions

Making Technology Visible
Dear Sir / Madam,

Labtech International Ltd. is proud to announce that we are exhibiting at the GESS DUBAI 2017.

BOOTH NO. W30
GESS DUBAI 2017,
14th - 16th March 2017
Dubai World Trade Centre, UAE

This newsletter is to inform you about our participation in this event so that you may put it on your calendar to attend. No doubt it would be interesting for you to see the latest educational technology trainers that will be on display and to attend the seminars and forums on relevant educational issues. We value our partners and look forward to meeting up with you in Dubai if possible.

As you may already know, Labtech is one of the Oldest and Largest Manufacturers of Technical Education Equipment for TVET that is based in Asia. We have a special combination of advantages that we offer to our clients and partners that are seldom found in educational companies today. This includes good design with well thought out educational features, good quality, world class components, ability to customize to client needs. This combination of quality and features together with our lower productions costs and pricing makes Labtech training systems the best value on the market today. Labtech has also worked hard to achieve ISO certification in Educational Training Systems Research and Development. There are perhaps only three companies in the world which has this ISO certification in this area.

In 2015 we also achieved ISO 18001 for Occupational Health and Safety and ISO 14001 Environmental Certifications. This keeps Labtech at the forefront in achieving ISO certifications in our Industry.

New and Revised Products within last 2 years

As you may know, Labtech is constantly developing and upgrading our products to have even greater capabilities each year. Some of these new training systems are being presented for the first time in Dubai. In 2015-2016 we developed over 65 additions and revisions to our product line. These included:


Electrical Engineering: Including a new Powder brake for electrical motor testing as well as a new servo dynamometer for motor testing with data acquisition. Also we have developed an Electrical Installation and Safety trainer and a Power Electronics & Motor Drive Control System. In addition we have developed new KNX and Z-wave industrial and residential automation trainers.

Automotive: In the Autotronics range we have added two new systems for Ignition & Charging Systems as well as Vehicle Displays. Also we have redesigned our programmable EFI system to enhance and extend student experimentation and learning. We have a new model of Common Rail Diesel Engine trainer which we can offer at affordable prices.

Electronics: We have redesigned our TV training systems which are now available in LCD and LED format. Also we are now offering many of our modular desktop base station learning systems to be supplied in a workbench format with the experimental boards mounted onto training panel racks which are positioned above the central power supplies and services.

Bio Medical Technology: We have revised, updated and improved our fundamentals of basic biomedical electronics training systems so that it now has more modules than ever. This trainer instructs about the basics of biomedical electronics and prepares the students to go onto the applied training systems. Our new range of applied biomedical technology trainers include EEG, ECG, Blood Pressure, Electro Surgical Trainer, Spectrophotometer, Ultra Sound Graph Trainer, Ventilation Unit, Spirometer Testing Unit, Patient Monitor, EMG, Infant Incubator and T.E.N.S. Unit. Also a new Hospital Electrical Installation and Safety Trainer have been developed.

HVAC: We have several new models of our Building Management systems that have been added onto our Central AC Systems and other trainers as well. Also we have updated formats for our Air Conditioning Controls Training systems.

TVET Digital Content: We have expanded our Digital Content Production unit by tripling the staff there and now we have close to 20 persons who are designing and developing new content in this area. We had completed 45 modules in the Automotive area, including a number of Hybrid Engine Systems modules and are now concentrating on Electronics and Electrical and then onto the HVAC area. We have also been creating a new generation of 3D models that show the construction of key components in very realistic manner. Some our first is in the Automotive area and also we have a series of models for Mechanical Engineering as well.

You can visit Labtech website at www.labtech.org to see our technical training systems for Electronics, Electrical, Computer IT, Air Conditioning and Refrigeration (HVAC), Green Tech / Renewable Energy Systems, Automotive technologies featuring Autotronics and we have infused these areas with 21st Century Skills including Digital Content, LMS and CMS.

New Updated 2017 Subject Catalogs plus NEW Green Tech & Renewable Energy and Digital Content Catalogs: We have updated our 20 pages catalogs for each subject area which feature color photographs of our product range and lists the educational objectives of each trainer. These have been produced in a 20 page format in hardcopy as well as PDF files.
So please come and see us at GESS Dubai 2017.

1. **Meet our marketing team** – A number of our senior marketing team members will be there including Dr. Steven McKee, Izzu Zulkifly, Indra Lugianto and Deepak Mehrotra to discuss new developments and prospective projects.

2. **Discuss 21st century Skills programs with Labtech partners such as ISTE (www.iste.org)** – Labtech has been working on new solutions for client countries to access ISTE learning resources and teacher training programs for 21st century skills development. We are pioneering new tools for teacher profiling and training as well as support programs that will increase the success for all educational technology projects.

3. **Digital Content and Virtual Reality as the Delivery Platform** – Come see some of the new engineering educational software and simulations that are being developed by Labtech using realistic rendering and functionality. Virtual animations and simulations have the ability to transform education in vocational schools by improving learning and lowering costs. We have new versions for our Classroom Management System (CMS) and Learning Management System (LMS) which integrates with our new content. Please also visit our new website for 21st century skills and educational technology.

   http://edu21stcentury.org

4. **New Biomedical Training Systems** – We have been expanding our Biomedical training systems to include more equipment and instruments. We have a new range of training systems that can make individual training more comprehensive. Currently we have more than 15 major trainers that cover many of the key technologies used in hospitals today.

   ![Biomedical Training Systems](image1)

5. **Advanced integrated BMS training Systems** – Labtech has continued to develop our BMS training systems so that they now train for integrated building control technologies for HVAC, electrical systems, lighting systems, CCTV, Security Systems, Fire Alarm Systems, Apartment and room controls and more. We now offer a complete range from basic to advanced systems that include real components and systems to also simulations. The control software is also able to be used over network systems.

   ![BMS Training Systems](image2)
6. Labtech Latest 2017 Training Systems – We have included our recent new products into our expanded training systems range. This keeps Labtech on track on its mission to be the world’s largest range of training systems manufacturer for TVET. With our six main technology areas and almost 1,000 training systems, this does indeed make Labtech stand out as having the largest and most comprehensive range of training systems in the world. We can adapt our systems and format to meet every country’s individual training requirement. Amongst our newest products are Blower Fan Trainer, Heat Exchanger Trainer, Heat Transfer Unit Trainer, Jacket Tank Heat Exchanger, Plate Type Heat Exchanger, Shell & Tube Heat Exchanger, Tube in Tube Heat Exchanger, Energy Efficiency Trainer, Solar & Wind Energy Trainer, Electro Surgical Trainer and Ultra Sound Graph Trainer. Also, we have come up with new design of Workbench Training Panel Format as well Hexagonal Work Bench as to expand our product range in Workshop Benches.

7. Expanding Area for Green Technology Training Systems – We have expanded this category in which we are doing continuous systematic development that will result in the world’s largest range of Renewable Energy and Green Technology training systems. This range of modular and integrated training systems will cover from Vocational School Level to Skill Training Institute Level. It will include demonstration apparatus, realistic industry standard units and simulations as well. In addition it will feature at its higher levels energy integration and control and interface with our BMS systems for building energy management.

Green Tech is increasingly becoming a more important aspect of many technical studies. These technologies are helping us to conserve and preserve energy and to be more energy efficient in our daily lives both at work and at home. Labtech supports the concept of including this area into traditional subjects and working toward making GreenTech an independent faculty or technological subject area. We have for many years been making training systems that cut across our traditional subject areas and have developed training systems for Wind, Solar Thermal, Solar Photovoltaic, Green HVAC, Micro Hydro, Regenerative Systems, Hybrid and Electric Vehicles, Fuel Cells, Bio Fuels, Energy Management and Integration, Energy Conservation and Storage. We are able to embed these programs into our Automotive, Electrical, Electronics, HVAC and Building Management training programs or offer it as a stand-alone subject that include a full range of green Technology for study that covers both the theoretical study of the underlying principles and technology as well as developing applied practical hands on skills for employment.
We look forward to seeing you in Dubai World Trade Centre and our stand number is W30.

2017 Preview

For 2017 you can also expect a series of new products from Labtech with more work in the GreenTech area including Automotive Hybrid Vehicle Systems, new systems in our traditional areas plus more Digital Content the training of Virtual TVET.

We plan to exhibit at GESS Dubai, but also in India in September at India Didactics, GESS Jakarta in September and participate on a series of conferences at several venues around the world.

Yours Sincerely

Dr. Steven McKee, Izzu Zulkifly, Indra Lugianto, Deepak Mehrotra
Labtech Marketing Team