Program Code	21-22/ICP04PHL
Program Title	**Training of Trainers on Automotive Technology Using Virtual TVET**
Program Dates	24-25 January and 2-3 February 2022
Program Venue	Zoom Virtual Cloud Meeting Room
Program Supervisors	Prof. G.L.D. Wickramasinghe, CPSC Director General Dr. Steven McKee, Labtech Int'l Ltd. President
Program Coordinator	Brad Ker, Head, Labtech Academy

OBJECTIVES

This course provides an introduction for Teachers/Instructors to a TVET Learning Management System (LMS) and Virtual TVET Digital Learning Content. The objective is to get them up and running on when and how to use Virtual TVET and digital content and TVET LMS to monitor the progress and grades of learners within and across institutions, and how to integrate these into their classroom learning, plus management of courses. The outcome for the teacher/instructor/trainers is that it will be a refresher course on new technology and applying a hybrid approach in the relevant subject area.

PROGRAM CONTENTS

The four (4) day training covered the following topics:

- Labtech - Digital TVET Framework and What is Virtual TVET
- Labtech - Navigating Yourself around a TVET LMS and Reporting
- Labtech - Creating a Lesson Plan Using Virtual TVET
- Labtech - Ongoing Professional Development (Coaching)

LEARNING OUTCOMES

- Understand the details behind a virtual TVET Digital Framework
- Implement and commission Virtual TVET Online Digital Content

- Compare traditional teaching methods with the needs of the learner of the 21st Century
- Demonstrate an understanding of the use of Virtual TVET online digital content in group facilitation
- Identify different learning element and how Virtual TVET can be incorporated
- Virtual TVET with Blended Approach and how it can be integrated into Lesson Plans
- Critique a lesson, facilitated using Virtuala TVET
- How to formalize the assessment of the competencies learnt

TRAINING DELIVERY

Training was delivered through synchronous online activities ('virtual live' e-learning sessions) like presentations and sharing sessions, demonstration of training tools, activities, and facilitated group and panel discussions conducted by the Labtech International.

PROGRAM PARTICIPANTS

The participants of this In-Country Program were composed of automotive Teacher/Instructor/Trainer and have significant training experience in a TVET institute, and Department Head of Automotive Department who are involved in the improvement and development of Automotive Technology teaching and learning systems.

PROGRAM MANAGEMENT

Program Supervisors

Prof. G. L. D. Wickramasinghe is the first Sri Lankan and the 12th Director General of CPSC. He is also the concurrent President of Asia Pacific Accreditation and Certification Commission (APACC).

Prior to his appointment as the Director General, he was a professor at the Department of Textile and Clothing Technology, University of Moratuwa, Moratuwa, Sri Lanka since 2015. Here also held key administrative posts during his career: as a former Vice-Chancellor of the University of Vocational Technology (2016-2019), former Chairman of the Center for

Open and Distance Learning (CODL) of the University of Moratuwa (2015-2016), and former head of the Department of Textile and Clothing Technology (2009-2012).

He also served as the Chairman of Alethea International School (2017-2021), an independent non-executive Director of Orit Apparels Lanka Ltd. (2014-2016), and Sri Lanka Institute of Textile and Apparel (2010-2015). He also served as the Director of Technical and Quality Assurance of Brandix Textiles Ltd (2013-2014). He also served as chairman and member of various public sector strategic and technical committees.

He also published over 60 research publications on topics related to textile engineering and educational management, of which over 30 are international refereed journal publications. He was honored with 18 national and international awards including Emerald Literary Award (2018), President's Award for Scientific Publications (2017), and NRC Merit Award for Scientific Publication (2016, 2011). The World Education Congress also honored him with the award for Outstanding Contribution to Education in "Sri Lanka Education Leadership Awards" in 2018.

Prof. Wickramasinghe is a graduate of a Bachelor of Science in Textile Engineering from the University of Moratuwa in 1993 by which he obtained first-class honors. He finished his PhD at the University of Manchester in 2003. He also obtained a PG Certificate in Learning and Teaching, the University of Arts London, UK in 2006 and an MBA from the University of Sri Jayewardenepura, Sri Lanka in 2008.

Sec. Isidro Samson Lapeña is the 12th Director General of the Technical Education and Skills Development Authority (TESDA), tasked to manage and supervise technical education and skills development (TESD) in the Philippines.

Immediately after assuming the post, Secretary Lapeña made his mission for the agency loud and clear – that is for TESDA to reach out to all sectors of society, more importantly those in the lower strata, - which is captured in TESDA's battle cry, "TESDA, Abot Lahat."

Under his guidance and leadership, TESDA is expected to reach out to those who have less in life and afford them with opportunities through scholarships and training.

On top of his agenda as TESDA chief is to assist and facilitate the gainful employment or livelihood of the graduates after their training and education.

Early on in his administration, Secretary Lapeña ordered a stricter policy in the Omnibus Guidelines for 2019 TESDA Scholarship Programs which, among others, now discourage anomalies and illegal activities by implementing stricter monitoring of training programs and trainees' attendance. He has set a higher employment rate for the graduates for the technical-vocational institutions to strictly observe.

He also ordered the amendment of the Omnibus Guidelines on Program Registration under the Unified TVET Program Registration and Accreditation System (UPTRAS) which provides for sanctions and penalties for erring private technical-vocational institutions (TVIs).

He graduated from Urdaneta City National High School and from the Philippine Military Academy of the Maagap Class of 1973. He earned his Master's Degree in Public Administration in Manuel L. Quezon University before he became a Doctor of Philosophy in Criminology conferred by the Philippine College of Criminology.

Dr. Steven McKee is the President of WorldDidac Association (the largest international education industry association). Worlddidac is an international network of passionate individuals and organizations who drive and harmonize learning worldwide by inspiring connections, improving methodologies, and furthering technological development for the advancement of education globally. We serve to create a value for all in education.

He is also the President and founder of Labtech International, Founded in 1985, Labtech is perhaps the oldest and certainly one of the largest technical education equipment designers and manufacturers that is based in Asia. Labtech is renowned for its educational innovation and has thousands of schools as clients in over 80 countries. Labtech's latest work is in pioneering the intersection of digital learning and 21st century skills with Vocational Technical Education. This area has a great potential to improve the dynamics of teaching and learning for skills as well as reducing the cost of TVET education around the world by virtualizing part of the learning process.

Program Coordinator and Resource Person

Mr. Brad Ker originates from Australia and has a Double Degree in Geographical Information Science and Geography. He has been providing training and solutions to organizations around the world for over 30 years and is a result driven professional with a solid, verifiable career track record for successfully providing innovative educational solutions to both government and private institutions.

He is an exceptional communicator with strong negotiation, problem resolution, and client needs assessment aptitude. Brad has traveled to over 45 countries and has a keen interest in making educational institutions and industry work closer together, so we have a synergy in employable skills.

Brad's work with Labtech is in pioneering the intersection of digital learning and 21st century skills with Vocational Technical Education. This area has a great potential to improve the dynamics of teaching and learning for skills as well as reducing the cost of TVET education around the world by virtualizing part of the learning process. Labtech's "Virtual TVET" approach has the potential to improve the dynamics of learning and to lower the costs tremendously for technical and vocational education.

Local Coordinator

Ms. Carmelita Corbito is the Chief Administrative Officer at the Human Resource Management Division, Administrative Service (HRMD-AS) in Technical Education and Skills Development Authority - Central Office. She is tasked to manage the implementation of the HRMD/HRD programs, projects, and activities in the following HR functions: Recruitment, Selection and Placement, Learning and Development, Performance Management, Rewards and Recognition, Leave and Payroll Administration and Human Resource Information System. Also providing staff advice and assistance on matters related to human resource management and establishing and maintaining linkages with other offices engaged in HRM/HRD work.

She graduated from Torres High School with academic honors and as a Cum laude at Philippine Normal University for her Bachelor of Science in Education major in Social Science. After graduation, she took and passed the board exam for teachers. She proceeded with her studies and completed a Masters in Business Administration at the Ateneo Graduate School of Business (AGSB).

Program Design and Content	**96.80%**
Relevance of Program Content	96.00%
Quality of Program Book and Instructional Materials	96.80%
Adequacy of topics covered	97.60%

Program Management	**96.00%**
Effectiveness of Teaching and Learning Methodologies	96.00%
Time Allocation for Activities and Project works	96.00%
Effectiveness of Lectures Delivered	95.20%
Quality and efficiency of the CPSC OnCOURSE	97.60%

Summative Evaluation Average	**96.40%**
No. of Respondents	**25/29(86.21%)**

Overall Impression of the Program	**100.00%**
No. of Respondents	**25/29(86.21%)**

Dr. Steven McKee	
The presentations and contents of lecture/s are relevant to the program theme	95.20%
During the delivery of lecture/s and addressing questions, the communication skills of the resource person were effective.	96.80%
The resource person was able to use the time allotted for lectures and activities efficiently.	96.80%
The resource person was able to demonstrate subject matter competence that is relevant to the program theme/topics.	96.00%
I suggest that this resource person may be invited again.	98.40%
Average	**96.64%**
No. of Respondents	**25/29(86.21%)**

Mr. Brad Ker	
The presentations and contents of lecture/s are relevant to the program theme	98.40%
During the delivery of lecture/s and addressing questions, the communication skills of the resource person were effective.	99.20%
The resource person was able to use the time allotted for lectures and activities efficiently.	99.20%
The resource person was able to demonstrate subject matter competence that is relevant to the program theme/topics.	99.20%
I suggest that this resource person may be invited again.	99.20%
Average	**99.04%**
No. of Respondents	**25/29(86.21%)**

Additional comments and suggestions were generated from the participants for further improvement and consideration of the next conduct of the program. Below are some notable comments and recommendations:

Suggestions and recommendations

New topics that can be included in this program
● Hybrid vehicle ● Automotive: Chassis Repair, Engine Repair, Electrical Repair ● Preventive Maintenance ● Solar power vehicle ● Speed Limiter Installation & service ● Small engines ● Latest invention that would be useful in our society ● Pure electric cars ● Steps on how to make simulations ● Electronic control unit ● E-learning ● Simulations of mocked up

Titles or themes of programs to be organized by CPSC in the member country
● Green technology ● Automotive: Chassis Repair, Engine Repair, Electrical Repair ● Preventive Maintenance Services ● Hybrid vehicle ● Hybrid transmission ● LMS Generation ● Motor rebuilding ● ECU Management System ● Automotive technology ● Automotive mocked ups

Overall, the program summative evaluation received an average rating of **96.40%** Twenty-five (25) out of twenty-nine (29) participants find the program contents relevant. Below are responses when asked about comments, feedback, remarks or suggestions on the program.

Comments, feedback, remarks or suggestions on the program
● The training is very informative and enjoyable ● Enjoyed browsing the LMS ● Hoping to attend actual ● Excellent Topic ● Good job! A successful program indeed. ● Overall, very good! ● Competent virtual trainings

Suggestions and comments for the specialist: Dr. Steven McKee
● Excellent ● Very good ● Good job

Suggestions and comments for the specialist: Brad Ker

- Thank you for sharing your ideas
- Excellent
- Very good facilitator
- He is very good resource person

A. Lessons Learned

- Understand the details behind a Virtual TVET Digital Framework
- Implement and commission Virtual TVET Online Digital Content
- Compare traditional teaching methods with the needs of the learner of the 21st Century
- Identify different learning elements and how Virtual TVET can be incorporated
- Identify components of Virtual TVET and how it can be integrated into Lesson Plans
- Critique a lesson, facilitated using Virtual TVET
- How to formalize the assessment of the competencies learnt
- Understand some new Automotive Technology

B. Opportunity for Improvement

- More Emphasis to Adapt and Adopt Virtual TVET
- Understanding the blended approach and incorporation of Virtual TVET into lesson plans
- Relevance to Industry 4.0 and the impact it will have
- Incorporate a backup plan in case of cancellation due to ill health or an emergency.

Prepared by:

Brad Ker
Program Coordinator and
Resource Person
Labtech Int'l Academy

Noted and Approved:

Prof. G.L.D. Wickramasinghe
Director General

Program Photo Docs