

Online TVET Teacher's Training Outline

In-Country Program

- 1. Training of Trainers on Automotive Technology Using Virtual TVET-** The learning materials or topics are designed to cover from the introduction to automotive systems such as basic engine fundamentals, electricity, and electronics, braking systems, wheels, and drive systems, steering and suspension systems. It also goes onto developing the students' knowledge and skills leading to more advanced studies such as petrol and diesel fuel systems, engine management systems, transmissions, and hybrid vehicles.



Program Outline

In this four (4) day training, the program will cover the following topics:

- Pre and Post-Test Surveys
- Digital TVET Framework and What is Virtual TVET
- Understanding how to Adapt and Adopt Blended Learning
- How to use a TVET LMS and Deliver Competency-Based Training
- TVET LMS Reporting and Analytics
- Understand the Technical Operation and Troubleshooting of New Modern Training Systems
 - basic engine fundamentals,
 - electricity and electronics
 - braking systems
 - wheels and drive systems,
 - steering and suspension systems
- How to incorporate Lesson Plans using Virtual TVET
- Ongoing Professional Development
- Certificates of Completion Certified by Worlddidac

Overview of Program Schedule: The program will be conducted in Synchronous mode of learning. The training program will be conducted for 4 hours per day for 4 days. The online session is estimated to have a total of 16 hrs. (inclusive of in-between sessions break). Also included is 6-months subscription to all the Automotive courses on the CPSC-Labtech Academy TVET Learning Management System (LMS).

Day 1 – Online session of 4hrs

Day 2 – Online session of 4hrs

Day 3 – Online session of 4hrs

Day 4 – Online session of 4hrs

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2. **Training of Trainers on Air Conditioning and Refrigeration (HVAC) Using Virtual TVET** - The learning materials or topics are designed to cover from the introduction to HVAC fundamentals, electrical controls and components, instruments and meters, electric motors, HVAC components, etc. It also goes onto developing the students' knowledge and skills leading to more advanced or practical studies such as residential and commercial air conditioning and refrigeration systems, automotive air conditioning, etc.



Program Outline

In this four (4) day training, the program will cover the following topics:

3. Pre and Post-Test Surveys
4. Digital TVET Framework and What is Virtual TVET
5. Understanding how to Adapt and Adopt Blended Learning
6. How to use a TVET LMS and Deliver Competency-Based Training
7. TVET LMS Reporting and Analytics
8. Understand the Technical Operation and Troubleshooting of New Modern Training Systems
 - a. introduction to HVAC fundamentals
 - b. electrical controls and components
 - c. instruments and meters
 - d. electric motors
 - e. HVAC components
9. How to incorporate Lesson Plans using Virtual TVET
10. Ongoing Professional Development
11. Certificates of Completion Certified by Worlddidac

Overview of Program Schedule: The program will be conducted in Synchronous mode of learning. The training program will be conducted for 4 hours per day for 4 days. The online session is estimated to have a total of 16 hrs. (inclusive of in-between sessions break). Also included is 6-months subscription to all the HVAC courses on the CPSC-Labtech Academy TVET Learning Management System (LMS).

Day 1 – Online session of 4hrs

Day 2 – Online session of 4hrs

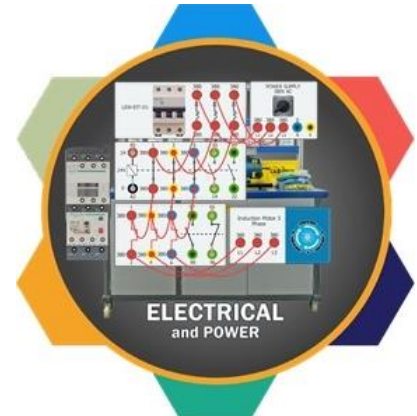
Day 3 – Online session of 4hrs

Day 4 – Online session of 4hrs

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In-Country Program

- 3. Training of Trainers on Electrical Basics Using Virtual TVET** - The learning materials or topics are designed to cover from the introduction to electrical fundamentals, instruments and meters, electrical components, power supplies, etc. It also goes onto developing the students' knowledge and skills leading to more advanced or practical studies such as residential and commercial wiring systems, electrical machines and their controls, electrical protection systems, etc.



Program Outline

In this four (4) day training, the program will cover the following topics:

- Pre and Post-Test Surveys
- Digital TVET Framework and What is Virtual TVET
- Understanding how to Adapt and Adopt Blended Learning
- How to use a TVET LMS and Deliver Competency-Based Training
- TVET LMS Reporting and Analytics
- Understand the Technical Operation and Troubleshooting of New Modern Training Systems
 - introduction to electrical fundamentals,
 - instruments and meters
 - electrical components
 - power supplies
- How to incorporate Lesson Plans using Virtual TVET
- Ongoing Professional Development
- Certificates of Completion Certified by Worlddidac

Overview of Program Schedule: The program will be conducted in Synchronous mode of learning. The training program will be conducted for 4 hours per day for 4 days. The online session is estimated to have a total of 16 hrs. (inclusive of in-between sessions break). Also included is 6-months subscription to all the Electrical courses on the CPSC-Labtech Academy TVET Learning Management System (LMS).

Day 1 – Online session of 4hrs

Day 2 – Online session of 4hrs

Day 3 – Online session of 4hrs

Day 4 – Online session of 4hrs

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- 4. Training of Trainers on Renewable Energy Using Virtual TVET** - The learning materials or topics are designed to cover from the introduction to green and renewable energy fundamentals, renewable energy supporting technologies, and renewable energy system simulations, etc. It also goes onto developing the students' knowledge and skills leading to more advanced or practical studies such as geo-thermal systems and green technology power management systems etc.



Program Outline

In this four (4) day training, the program will cover the following topics:

- Pre and Post-Test Surveys
- Digital TVET Framework and What is Virtual TVET
- Understanding how to Adapt and Adopt Blended Learning
- How to use a TVET LMS and Deliver Competency-Based Training
- TVET LMS Reporting and Analytics
- Understand the Technical Operation and Troubleshooting of New Modern Training Systems
 - introduction to green and renewable technology
 - energy efficiency in buildings
 - wind turbine systems
 - concentrated solar power systems
- How to incorporate Lesson Plans using Virtual TVET
- Ongoing Professional Development
- Certificates of Completion Certified by Worlddidac

Overview of Program Schedule: The program will be conducted in Synchronous mode of learning. The training program will be conducted for 4 hours per day for 4 days. The online session is estimated to have a total of 16 hrs. (inclusive of in-between sessions break). Also included is 6-months subscription to all the Renewable Energy courses on the CPSC-Labtech Academy TVET Learning Management System (LMS).

Day 1 – Online session of 4hrs

Day 2 – Online session of 4hrs

Day 3 – Online session of 4hrs

Day 4 – Online session of 4hrs

Online TVET Teacher's Training Outline

In-Country Program

5. Training of Trainers on Electronics Using Virtual TVET -

The learning materials or topics are designed to cover from the introduction to electronics fundamentals, semiconductors and analog circuits, digital electronics, etc. It also goes onto developing the students' knowledge and skills leading to more advanced or practical studies such as digital electronic simulations, and biomedical fundamentals, etc.



Program Outline

In this four (4) day training, the program will cover the following topics:

- Pre and Post-Test Surveys
- Digital TVET Framework and What is Virtual TVET
- Understanding how to Adapt and Adopt Blended Learning
- How to use a TVET LMS and Deliver Competency-Based Training
- TVET LMS Reporting and Analytics
- Understand the Technical Operation and Troubleshooting of New Modern Training Systems
 - introduction to electronics fundamentals,
 - transistors and amplifiers
 - analog and digital converters
 - introduction to biomedical fundamentals
- How to incorporate Lesson Plans using Virtual TVET
- Ongoing Professional Development
- Certificates of Completion Certified by Worlddidac

Overview of Program Schedule: The program will be conducted in Synchronous mode of learning. The training program will be conducted for 4 hours per day for 4 days. The online session is estimated to have a total of 16 hrs. (inclusive of in-between sessions break). Also included is 6-months subscription to all the Electronics courses on the CPSC-Labtech Academy TVET Learning Management System (LMS).

Day 1 – Online session of 4hrs

Day 2 – Online session of 4hrs

Day 3 – Online session of 4hrs

Day 4 – Online session of 4hrs