

Labtech Side Event and Booth:

Training HVAC technicians for the Future



Accelerating HPMP Training with Labtech

Blended Learning & Digital Twins



Date: July 13 – 17, 2026 - at the OEWG Bangkok

Location: United Nations Conference Centre (UNCC), Bangkok, Thailand

As developing nations accelerate their Hydrochlorofluorocarbon Phase-out Management Plans (HPMPs) and implement Kigali Amendment targets, training the HVAC/R workforce on safe handling of eco-friendly, low-potential global warming (GWP) refrigerants has become a critical bottleneck. National Ozone Units (NOUs) are constantly searching for ways to scale high-quality technical education while managing limited budgets, safety hazards, and geographical constraints.

Building on successful global implementations in partnership with **UNDP** and **UNIDO**, **Labtech** returns to the Open-ended Working Group (OEWG) for our second year. We invite all delegates, NOU officers, and implementing partners to visit our dedicated **Exhibition Booth** throughout the week and join our exclusive **Side Event on Thursday, 16 July**, to experience how physical training systems paired with digital environments can

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LABTECH Side Event - Training HVAC technicians for the Future

Scale Training Reach and Safety at Lower Costs dramatically lower training costs and accelerate workforce readiness.

- **Event Title:** Elevating HPMP Training: Scaling Reach and Effectiveness through Digital Twins and Blended Learning
- **Date:** Thursday, 16 July 2026
- **Time:** Lunch Break (1:00 PM – 3:00 PM) – *Lunch will be provided*
- **Location:** The Theatre, UNCC, Bangkok



Featured Agenda

1. **Interactive Live Demonstration:** Experience the power of cyber-physical education. We will feature a live, real-time connection to a state-of-the-art training unit running its integrated "Digital Twin." This showcase will prove how training programs can combine physical and digital learning to achieve quicker and better results. These systems allow the classroom to be extended online to reach students across each country.

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2. **Success Case Studies:** Learn how National Ozone Units in **Indonesia, Malaysia, and Kuwait** are Implementing upskilling pathways using these blended methodologies in active UNDP and UNIDO programs.
3. **Round-Table Panel Discussion:** A structured dialogue featuring expert representatives from UNDP, UNIDO, and leading NOUs. The focus will be on discussing technical education needs and challenges, policy alignment, and actionable approaches for integrating modern training technologies into future HPMP project proposals.

Spotlighting the "Digital Twin Classroom"

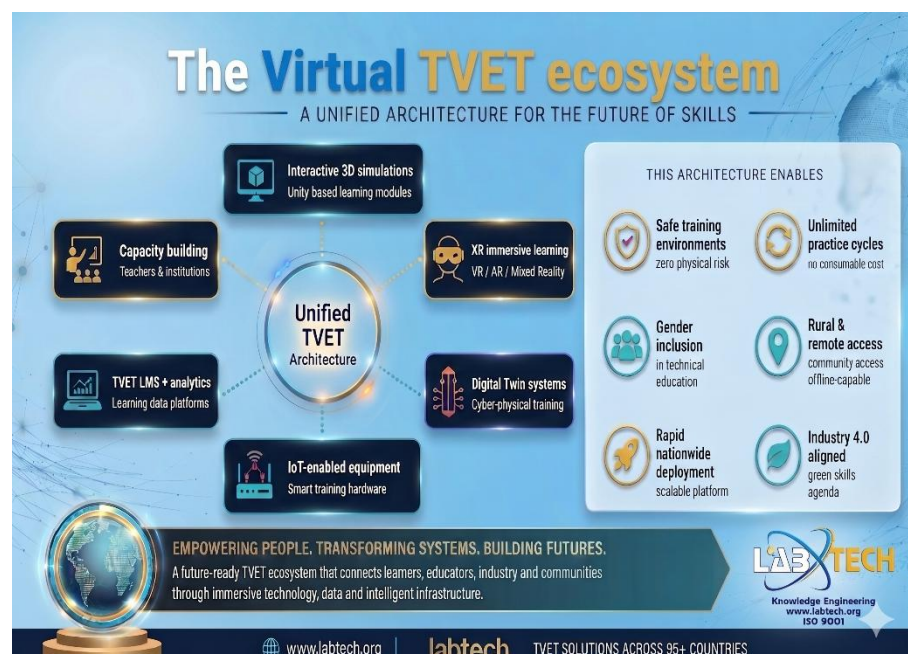
Overcoming Physical and Financial Barriers to Technical Education

The cornerstone of modern vocational training is the **Digital Twin Classroom**. Traditional classrooms are restricted by a 1-to-1 student-to-machine ratio, high energy costs, and the risks of refrigerant leakage during early-stage learning.

The Digital Twin solves this by generating an exact interactive virtual 3D counterpart of the physical training rig.

Students can manipulate virtual valves and controls, measure simulated pressures, and diagnose faults on smart devices, laptops, or large interactive screens.

Instructors gain a real-time visual dashboard to track class progress, run safety drills, and ensure absolute proficiency before transitioning students to physical tools.



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Visit The LABTECH Exhibition Booth

Experience the Next Generation of Technical Training (July 13 – 17)



Labtech will be showcasing solutions that we are providing to a number of countries through contracts with UNDP and UNIDO. This includes a new generation of training systems that combine physical hands-on training with power of interactive digital learning and simulation. This approach is ideal not only to upgrade existing training centers but also to reach in-service technicians to reskill and upskill them in new HVAC technologies. These training programs can be run purely as hands-on, blended learning style or even hybrid learning format where the participants do part of their program online and then in the lab. This enables training programs to expand their reach across various locations and adapt to different training needs.

- **What We are Showcasing:**

- **Blended Learning Ecosystems:** Interactive, tactile HVAC/R training rigs seamlessly integrated with immersive digital content.

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- **Low-GWP Safety Solutions:** Actionable blueprints to safely train in-service technicians on flammability, toxicity, and high pressures associated with alternative green refrigerants.
- **Advanced Skill Optimization:** Safely train in-service technicians on complex HVAC technologies and low-GWP refrigerants using interactive virtual counterparts before transitioning them to physical rigs
- **Virtual Training (online and Hybrid):** Cost-effective, online, interactive virtual environments including AR and XR simulations that allow institutions to scale training capacity without costly duplicate equipment. Extend your classroom online with hybrid formats, allowing students from across the country to access interactive 3D environments on smart devices and laptops
- **Why You Should Visit:**
 - Discover how your national training centers can adopt virtual learning programs that adapt to your needs, backed by curricula designed specifically for Montreal/Kigali workforce goals.
 - Experience a live demonstration of how digital simulations reduce physical material consumption
 - Consult with Labtech's educational technology experts on custom blueprints tailored to your country's specific HPMP funding and target structure.



Empowering a Sustainable Future through Knowledge Engineering