



Co-funded by the
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INNOVATION GARAGE OF GARAGES

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The IG2 Pilot Learning Model

“**Innovation Garage of Garages**” strategic partnership project, co-funded by the **Erasmus+** program of the European Commission, aims at training **green** skills for the **automotive sector**, through the multi-stakeholders joint **co-design of work-based learning environments**, simulating garages & production lines as well as working on **electric/hybrid vehicles**, also equipped

with digital & **avionics circuits** for connected fleets.

IG2 project started with Output #1, an **open & transferable VET Train-the-trainers** program, to combine work-based training programs with the real automotive workplace practices.

The IG2 Pilot Learning Model envisages **3 phases of implementation**:

-**troubleshooting** & testing in the workplace

-**assessment** from a technical expert

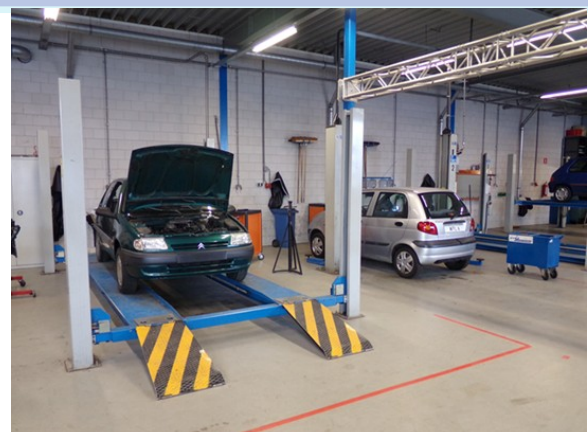
-**P2P review**, validation or re-design

Validation + Outcomes



Target Groups

- ♦ **VET Teachers & Trainers**
- ♦ **VET learners**, in particular those with less opportunities
- ♦ **Automotive Technicians** skilled about e-vehicles & avionics circuits
- ♦ **Dual Learning & Apprenticeship Managers**



Where should we start from?

It's not easy to get started when it comes to training the **most-in-demand green skills** for the **automotive** sector.

What should **VET trainees** be able to do when trying to **fix e-vehicles**?

How should the **workplace layout** look like for an effective training on e-vehicles and **avionics** skills?

In the pictures below, a few moments from the November 2021 meeting in Goteborg: partners visiting the electro-mobility center at Volvo Cars, and a group shot at the Volvo Trucks Factory Tour.



Troubleshooting: different ways to reach the goal

According to each partner's different profile, know how and target **VET students**, IG2 points out a **variety of approaches** to effectively train on **e-vehicles**, **hybrid vehicles** and **electro-mobility**:

- ◇ working on **electrical** and **engine control simulation panels**
- ◇ working on **safe handling** of

HEVs-BEVs

- ◇ **electrical equipment, batteries, voltage inverters**
- ◇ **driving comfort systems** (heating & cooling, steering assistance)
- ◇ **Battery system overview**
- ◇ **Lithium-Ion battery system**: physical & chemical properties, supply chain, design, production
- ◇ **EV systems & power**

supply: components, infrastructure, business model

Engine failure simulations & diagnostics with **electronic equipment**

E-vehicle architecture knowledge

ECU's management, calibration, parameters setting

AVAS systems (audible vehicle alert system)

Transnational project meetings:

While the **LTTA Staff Training Activity** was held online in Spring 2021, partners finally gathered physically in **Goteborg, Sweden, in November 2021** for their first onsite meeting after the Pandemic outbreak.

PARTNERSHIP



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