



Chargers of
Electric Vehicles
in Learning

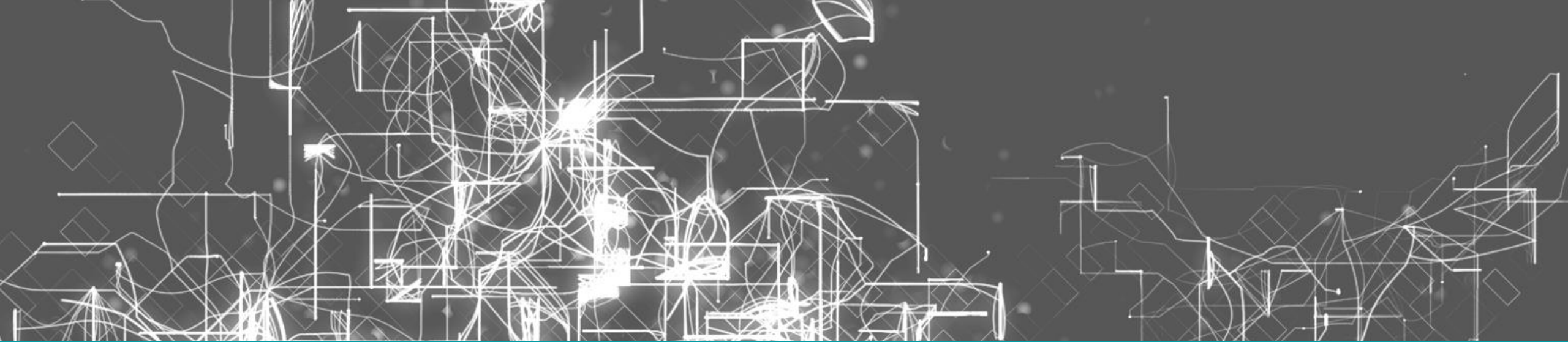
Co-funded by the
Erasmus+ Programme
of the European Union



C-Evil project

18th September 2020





Basic information



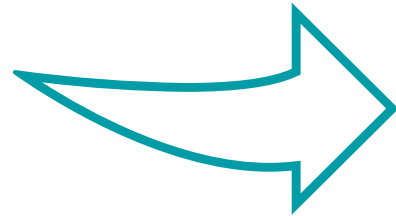
Project Data

Programme



Erasmus+ KA202
Strategic Partnerships
for vocational
education and training

Key Action



Cooperation for
innovation

Duration



01.10.2019. –
30.09.2021.

Partnership



8 partners from
7 countries

Partnership



CAM CONSULTING

Learning
Hub
Friesland

avaca
TECHNOLOGIES

EXPERTS		VET
<p>E-MOBILITY</p> <ul style="list-style-type: none"> • TR: EGE UNIVERSITY • HU: CAM CONSULTING 	<p>EDUCATION</p> <ul style="list-style-type: none"> • NL: LEARNING HUB FRIESLAND 	<ul style="list-style-type: none"> • HU: KSZC KANDÓ KÁLMÁN SZAKKÖZÉPISKOLÁJA ÉS SZAKISKOLÁJA • RO: COLEGIUL STEFAN ODOBLEJA • ES: SERVICIOS EXTREMEÑOS ENSEÑA
IT		LABOUR MARKET
<ul style="list-style-type: none"> • GR: AVACA 		<ul style="list-style-type: none"> • SK: ITALIAN-SLOVAK CHAMBER OF COMMERCE



enseña



Project objectives

Electric mobility is expanding at a rapid pace.

To stay ahead of development in the market for electric mobility, there is a vast need to educate future electricians about the key technical elements of Electric Vehicle charging.

Within the C-Evil project, partners join forces to develop new learning and training materials on EV chargers in order to fill the gap in electricity education.

DIRECT TARGET GROUPS

- Electricians (active workers and unemployed)
- Future professionals who would like to complement their skills.

INDIRECT TARGET GROUPS

- VET teachers/trainers (special knowledge & guidance for teaching methodology)
- Market actors from the electric mobility sector



Project progress

Workplan

EV charger curriculum

- Expectations
- Methodology
- Table of content



O1 - Learning objectives and curriculum

T1: Definition of learning objectives
T2: Definition of methodology and learning approach
T3: Development of EV charger curriculum

Knowledge base

- Raw material



O2 - Development and validation of 'train the trainer' materials

T1: Elaboration of training materials for teachers
T2: Description of teacher assessment and evaluation methodology
T3: Collection of trainers' experiences and recommendations on training materials

TESTING



Learning material

- Modul-based
- Online platform



O3 - Set of learning materials

T1: Developing training materials by modules
T2: Description of student assessment and evaluation methodology
T3: Developing online learning space
T4: Validation and testing of the training materials (final version & online learning space)

TESTING



Dissemination

- Guidelines for main stakeholders



O4 - Guidelines for stakeholders

T1: Guidelines for VET institutions
T2: Handbook for trainers
T3: E-learning handbook for electrical professionals
T4: Policy brief on EV Charger materials

O1 - Learning objectives and curriculum

- T1: Definition of learning objectives
- T2: Definition of methodology and learning approach
- T3: Development of EV charger curriculum

IO1-T1: Definition of learning objectives

- To provide students with specific knowledge that will enable them to handle EV chargers
- To develop students' personal/ professional skills
- To develop training materials (4-5 modules, including video tutorials) and assessment methods and tools
- To take the necessary steps to have EV chargers included in the national curriculum
- To train specialists in the area among teachers
- To make use of European instruments to recognize and validate the learning results
- To enhance cooperation with local or national entrepreneurs in order to create a common framework

IO1-T2: Methodology and learning approach



Methodology

Blended learning

A mix of

- theoretical materials including real life examples;
- Distance learning; and
- Practical training



Expectation

- Simple and self-explanatory materials
- Online reading and downloadable in pdf.
- Lots of visuals.
- Registered using.
- Online tests with immediate evaluation.
- Summary after each chapter



Integration

- TR: teachers can include C-evil approach in their courses
- RO: teachers can include C-Evil in „Curriculum for Local Development”
- HU: 10% of 'space' for local vocational needs that can include C-Evil approach

IO1-T3: EV charger curriculum

The curriculum includes

- units that teachers will teach in the classroom and also suitable for e-learning;
- what kind of information/knowledge will these units include;
- types of assignments and classroom projects during the time of learning that can be given to students and e-learners;
- additional teaching materials (e.g. books, videos, presentations, etc.) that can be used in the classroom and also on the e-learning platform;
- sources where teachers/e-learners can find more information on each topic;
- evaluation materials: types of tests and assignments;
- cultural or country-related specifications that could affect the curriculum.

Structure of the materials

Introduction

Installation

Management

Maintenance

Where you can find us?

Project website

<https://www.c-evil.eu/>

Facebook

<https://www.facebook.com/C-Evil-110394900529983>

Partners' own channels



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Thank you for your attention

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