



SYKLI



# **SYKLI Environmental School of Finland**

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# **SYKLI trains sustainability in practice**

- National specialist vocational college founded in 2002 in Finland
- From vocational degrees to recruiting trainings, and from tailor-made trainings to expert services
- Target groups include professionals and their employers – solely adult education
- 20 years – 40 000 students

# SYKLI operations

## DEGREE EDUCATION

- Vocational qualification in environmental management
- Vocational qualification in water management
- Specialist qualification for environmental management and experts

## CONSULTANCY AND DEVELOPMENT

- Quality, environment, occupational health and safety
- Futures workshops, premeditation
- Internal audits, environmental systems
- Resource efficiency, circular economy
- Surveys on energy and material flow
- Carbon footprint calculations and reduction path

## SUPPLEMENTARY EDUCATION

- Training on sustainable development and sustainable construction for educational facilities, teacher and management training
- Professional driver qualifications (e.g. economic driving, European agreement for ground transport ADR)
- Road safety, occupational safety, water hygiene
- Property maintenance, real estate management

## PROJECTS & INTERNATIONAL COOPERATION

- National projects
- EU projects, Erasmus+, Interreg, Life...
- Baltic area and Russia: water and waste management
- Education export

Labour market training, recruitment training (e.g. Further Educated with Companies F.E.C) on topics such as circular economy, low carbon, sustainable development, project management etc.

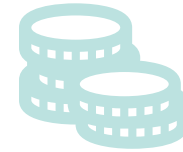
# From idea to practice



What does a carbon footprint of an organisation consist of?



What kind of goals on low carbon/carbon neutrality should we have?



What are the costs of carbon neutrality? Does it pose an advantage?



What skills should we have?

**Organisations ask questions, SYKLI provides answers and training**







# What is being done

- Vocational specialist qualification in environmental technology and resource efficiency
- Focus on low carbon due to feedback from the field
- Participants from all walks of life
- 12 days, 1-1,5 years, one day of contact lessons per month
- Consists of 4 parts:
  - Development in a Sustainable Manner (25 cp)
  - Operating in a Work Organisation (25 cp)
  - Working as Low Carbon (Resource Efficiency) Expert (90 cp)
  - Implementing a Development Project (40 cp)

CP= Competence Point =~27 h

# Your typical student at Low Carbon Course

- In their 30s to 50s
- Works at an organisation working on their corporate responsibility
- Prepared to learn and understand carbon footprint calculations
- Titles such as Development Manager, Quality Manager, Reuse Manager, Sustainability Specialist,
  - But also Service Manager, Real Estate Manager, Technical Director, Work Site Engineer, Communications Specialist
- Organisations from fields such as municipalities, waste, real estate, forestry, mining, NGO, Zoo, etc.



# Learning Goals of the Course

- Practical knowledge on low carbon solutions
- Organisational carbon footprint calculations
- Understanding of emission reduction path
- Resource efficiency as a means for improvement
- Skills on improving cost efficiency



# Development Project as a Learning Tool

- A Development Project is conducted on the organisation where the student works
- Development project consists of
  - Mapping of the situation in the beginning
  - Identifying development needs
  - Drafting a plan, assessing saving potential /benefits
  - Implementing action steps (when possible)
  - Measuring and assessment of results
  - Reporting



# Course contents



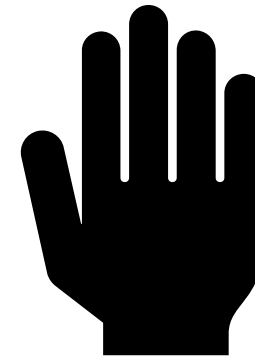
- Towards carbon neutrality
  - Climate change, carbon footprint, carbon handprint, compensation
- Sustainable practices
  - Sustainable organisation, identifying development targets
- Advances of low carbon and responsibility
  - Competitive advantage, responsibility communication
- Digital carbon reduction methods
  - IoT, open data, 3D-GIS
- Acquisitions and carbon footprint
  - Roadmaps, municipal bidding
- Resource efficiency
  - Material and energy efficiency, carbon footprint calculations
- Low carbon circular economy
  - Building and demolishing
  - Waste, energy and bioenergy
  - Renewable energy
- Low carbon construction
  - National renovation strategy
  - Excess heat recovery, energy storage
- Low carbon traffic
  - Traffic emissions, logistics, alternative fuels, carbon footprint
- Investments and financing
- Operating in a work organisation
- Development tasks throughout the studies

# The goal of sustainable ~~business~~ ~~education~~ is... life

Reduction of negative impact



Increasing the positive impact



For a sneak peak on our online courses (so far in Finnish only), please visit [www.kadenjalki.fi](http://www.kadenjalki.fi)  
English content is coming up soon!

THANKS!



SYKLI

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