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CONCERTED ACTION
ENERGY EFFICIENCY
DIRECTIVE

Certification and Training Scheme for (Future) Energy Auditors - Hungarian Case Study

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Purpose of the training



To train professionals who are capable of carrying out energy audits,

as defined in Paragraph 1 Point 13 of Act LVII of 2015 on Energy Efficiency, same as Article 2 (32) of EED,

‘Energy audit’ means a systematic procedure with the purpose of obtaining adequate knowledge of the energy consumption profile of a building or group of buildings, an industrial or commercial operation or installation or a private or public service, identifying and quantifying opportunities for cost-effective energy savings, identifying the potential for cost-effective use or production of renewable energy and reporting the findings.



i.e. who are able to

- **provide detailed and validated calculations** of the proposed energy efficiency improvement measures; and
- **quantify the energy efficiency potential** (potential energy savings).

Entry requirements



Qualification requirements to perform energy auditing activities:

BSc degree

- Energy Engineering
- Mechanical Engineering
- Electrical Engineering
- Architectural Engineering
- Civil Engineering
- Agricultural and Food Engineering

Relevant work experience:

8 years, in case of BSc degree

MSc degree

- Energy Engineering
- Mechanical Engineering
- Electrical Engineering
- Architecture
- Architectural Engineering
- Structural Engineering
- Construction Management and Engineering
- Building Service and Process Engineering
- Metallurgical Engineering, specialisation in Energy Management
- Mining and Geotechnical Engineering
- Agricultural and Food Engineering

5 years, in case of MSc degree

Main actors



(future) energy
auditors



- Approval of training materials
 - Maintaining a register of energy auditors and auditing organisations
- +
- Supervising energy auditors and auditing organisations
 - Inspecting energy audits

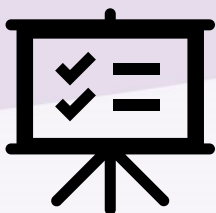
Hungarian Chamber
of Engineers

- Developing training materials (updated last year)
- Organising optional exam preparation courses
- Conducting energy auditor exams
- Organising mandatory annual training courses



Topics covered during the 3-day classroom-based training course (7x45 min each day):

- Legal background (EED, EPBD, Hungarian EE Act and Gvt.decreree on its implementation, etc.)
- Professional knowledge required for energy auditing:
 - Basic knowledge of energy sources, thermodynamics, electrical engineering, and electricity
 - Measurement methods and instruments, energy monitoring systems
 - Production, transportation and storage of heat, cold, and electricity
 - Building services and lighting systems
 - Energy consumption in freight and passenger transport
 - Utilisation of renewable resources
 - Economic evaluation, cost-benefit analysis, and financing
 - Energy auditor skills, ethics and responsibilities, etc.
- Rules and methodology for preparing energy audits
- Examples and case studies on conducting an energy audit



Mandatory annual training courses



Aim: To deepen knowledge, present new technologies and solutions

1-day training (7x45 min) on five different topics, each topic offered twice a year:

- **Buildings I.** } building physics, boundary structures, windows and doors,
- **Buildings II.** } heating and cooling systems, hot water supply, ventilation, lighting, etc.
- **Industrial processes I.** } heat generation, heating-cooling coupling, compressed air systems,
- **Industrial processes II.** } electric drives, power and energy management, economic evaluation, etc.
- **Transportation** – economic assessment of modernisation and vehicle replacement, as well as modal shift

Mandatory attendance at one training course per year

- Available online or on-site
- No exam
- All topics are covered over a five-year period (introduced last year)



After five years: Re-take the energy auditor exam

Register of energy auditors



Registration process:

Registration is carried out by MEKH based on a procedure initiated upon request.

Content of the register:

1. Energy Auditor Information: Full name, contact details, language proficiency
2. Professional Qualifications: Name of degree, issuance date
3. Relevant work experience: Nature, scope, and specific tasks
4. Energy Auditor Exam Details
5. Mandatory Annual Training: Topics covered, date of attendance
6. Registration Data: Date of application, registration, and removal from the register

The register contains **255 entries**, including **195 active energy auditors** and **60 removed entries**, as of **March 20, 2025**.

Thank you for your attention



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