

The qualification, certification and training of professionals in energy audit in the partner countries

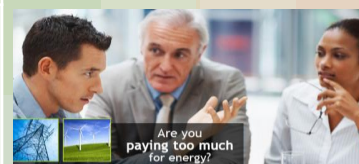
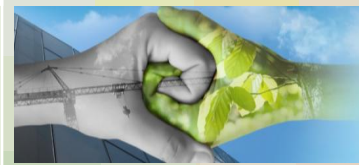
ITALY

I sistemi di qualificazione, certificazione e formazione delle figure professionali per l'efficienza energetica nei paesi partner

AGENA – DANILO DI PIETRO

Energy profiles (qualification, certification and training)

Professionals	Areas
Energy manager	Civil, industrial, and transport
Energy management expert	Civil and industrial
Energy auditor	Buildings, processes and transports
Energy certifier	Buildings





1) Energy manager

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Energy manager (tasks, legislation, trainings, accreditation etc.)

- **Task:** Responsible for the conservation and rational use of energy (usually called energy managers), mandatory (from 1992) for industries characterized by higher consumption of 10,000 toe / year and for the bodies of the civil sector, tertiary and transport present a threshold of consumption of more than 1,000 toe / year.

It is a high-level profile with managerial, technical, economic, financial, legal and communication skills that supports decision makers in policies and actions related to energy.

Energy manager is essential to support companies in implementing policies to reduce energy consumption - and therefore costs - and taking into consideration so efficient in all stages of production or the building management.

1) Energy manager

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Energy manager (tasks, legislation, trainings, accreditation etc.)

- **Legislation reference:** Lex 308/1982 - Lex 10/1991
The federation FIRE manage from 1992 appointments of energy managers in accordance to Law 10/1991
- **Education:** technical and scientific background (high school diploma/ university degree)
- **Training:** not compulsory
- **Accreditation:** not existing
- **Working output:** energy management for high energy consuming organisations

2) Energy management expert

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Energy management expert (tasks, legislation, trainings, accreditation etc.)

- **Task:** Promotion and implementation of energy management systems
- Analysis of contracts for the supply and sale of energy
- Energy audits including the identification of improvements in relation also to the use of renewable energy sources (technical and economic analysis of project feasibility and risk assessment)
- Management and control of energy systems and improvements
- Design and implementation of business plans and management of involved personnel
- Application of legislation and technical regulations in the energy and environment fields
- Reporting and communication with senior management , staff and external stakeholders
- Project management



2) Energy management expert

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Energy management expert (tasks, legislation, trainings, accreditation etc.)

- **Legislation reference:** Decree Law 102/2014
- **Compulsory Training:** not compulsory
- **Training and experience:** technical –scientific background (high school diploma/ university degree) and work experience
- **Accreditation:** UNI CEI 11339 by the Italian National Accreditation Body (ACCREDIA)
- **Working output:** energy management with a particular attention to environmental matters, business management and communication – Energy audit compulsory by DLgs 102/2014 for big enterprises

3) Energy Auditor

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Energy Auditor (tasks, legislation, trainings, accreditation etc.)

- **Task:** professional that performs energy audits with the purpose of obtaining adequate knowledge of the existing 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 cost-effective energy savings opportunities and reporting the findings
- **Legislation reference:** Dlgs 102/2014
- **Education:** high school diploma/ university degree (preferably technical – scientific background) and work experience
- **Training:** not compulsory
- **Standard:** UNI CEI EN 16247/5
- **Working output:** Energy Audits

4) Energy Certifier

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Energy Certifier (tasks, legislation, trainings, accreditation etc.)

- **Task:** a technician that gives information about the energy performance of the building and practical advice on improving such performance and issues the Energy Performance Certificate
- **Legislation reference:** Dlgs 192/2005
- **Education:** technical –scientific background (high school diploma/ university degree)
- **Training:** compulsory in some Italian Regions and for some kind of professionals (min. 80 hours; training program defined by annex 1 of DPR 75/2013)
- **Training organisations:** Regions , University, Research organisations, Professional associations
- **Regional accreditation:** at Regional level
- **National Accreditation:** proprietor scheme by the Italian National Accreditation Body (ACCREDIA)
- **Working output:** building energy performance certificate

4) Energy Certifier

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Energy Certifier (tasks, legislation, trainings, accreditation etc.)

ATTESTATO DI PRESTAZIONE ENERGETICA DEGLI EDIFICI
CODICE IDENTIFICATIVO: VALIGIO FINO AL

Il presente documento attesta la prestazione e la classe energetica dell'edificio e dell'unità immobiliare, ovvero la quantità di energia necessaria ad assicurare il comfort attraverso i diversi servizi erogati dai sistemi tecnici presenti, in condizioni convenzionali d'uso. Al fine di individuare le potenzialità di miglioramento della prestazione energetica, l'attestato riporta, oltre alla prestazione energetica globale, informazioni specifiche sulle prestazioni energetiche parziali del fabbricato, degli impianti di climatizzazione e ventilazione, di produzione di acqua calda sanitaria, di illuminazione e di trasporto di persone e cose (per il settore non residenziale) e di produzione di energia da fonti rinnovabili in loco. Viene altresì indicata la classe energetica più elevata raggiungibile in caso di realizzazione delle misure migliorative consigliate, così come descritte nella sezione "raccomandazioni" (pag.2).

DATI GENERALI

Destinazione d'uso:
☐ RESIDENZIALE
☐ NON RESIDENZIALE

Classificazione D.P.R. 413/93:
☐ Nuova costruzione ☐ Passaggio di proprietà ☐ Riquadrificazione energetica ☐ Diagnosi volontaria

Objetto dell'attestato:
☐ INTERO EDIFICIO
☐ UNITÀ/IMMOBILIARE (parte di edificio)
 numero di unità immobiliare di cui è composto l'edificio: _____

Dati identificativi

Regione: _____
 Comune: _____
 Indirizzo: _____
 Piano: _____
 Interno: _____
 Coordinate GIS: _____

Area di costruzione:
 Superficie utile riscaldata: m² Volume lordo riscaldato: m³
 Superficie utile raffrescata: m² Volume lordo raffrescato: m³

PRESTAZIONE ENERGETICA GLOBALE E DEL FABBRICATO

La sezione riporta l'indice di prestazione energetica globale non normalizzato in funzione del fabbricato e dei servizi energetici presenti, nonché la prestazione energetica del fabbricato, al netto del rendimento degli impianti presenti.

Prestazione energetica del fabbricato

Prestazione energetica globale

CLASSE ENERGETICA

EP_{g,lnr}
kWh/m² anno

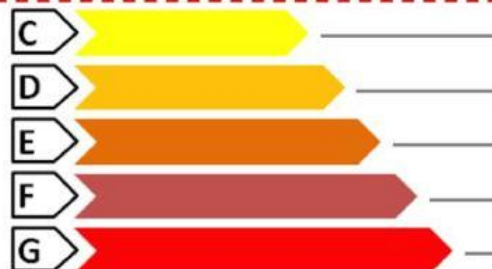
Prestazione energetica globale

EDIFICIO A ENERGIA QUASI ZERO

+ Più efficiente



Minimo edifici nuovi



Meno efficiente

CLASSE ENERGETICA

X

EP_{g,lnr}
kWh/m² anno

Conclusion

Thank you for attention
Grazie per l'attenzione

Danilo Di Pietro
dipietro@agenateramo.it