

Applying Energy Efficiency

Online programme overview

COURSE OVERVIEW & ENROLLMENT INFORMATION

INTRODUCTION

Applying Energy Efficiency provides a comprehensive overview of technical and economic aspects of energy efficiency measures. The online training presents support mechanisms for energy efficiency projects and points out saving potentials, in the industrial sector and in the built environment. Organisational aspects, such as energy management systems and energy audits, are also covered.

THIS PROGRAM IS SUITABLE FOR THOSE WHO:

- Develop strategies for implementing energy efficiency projects
- Want to assess the saving potential of cross-sectional technologies
- Are planning to set up energy management systems and/or energy audits

LEARNING OBJECTIVES

- Identify drivers and barriers for energy efficiency projects
- Select appropriate energy efficiency technologies
- Evaluate energy efficiency finance options
- Propose energy management systems and energy audits



SCHEDULE & ORGANISATION

STARTING DATES	Spring I Fall semester each year Start date: 1 April / 1 October
ESTIMATED WORKLOAD	• 5 - 10 hours study time per week • 100 hours in total • 3 Live webinars • 3 Assignments
FEES	€ 700 (German 19% VAT may apply) Payment method: VISA, MasterCard, American Express, PayPal, Invoice
DISCOUNTS	Early Bird 10%, Alumni 10%, Group 5% (min. 2 courses)
REGISTRATION	You can register online: Shop - RENAC

DEADLINES

Early bird deadline:
20 August / 20 February

Registration deadline:
30 September / 31 March

LEARNING OBJECTIVES & CONTENT OF THE COURSES



OPTIONAL INTRODUCTORY COURSES

Participants will have access to short introductory courses on energy and electricity topics to learn or revise the basics. These courses are not mandatory, and will not be covered in the exam.

Content

- Introduction to energy
- Introduction to electricity
- Introduction to the solar resource
- Introduction to electric grids
- Introduction to RE projects

MAIN COURSES

Introduction to energy efficiency projects

After completion of this course, participants will be able to:

- Define the character of energy efficiency projects
- Analyse drivers and barriers for energy efficiency projects
- Assess the relevance of energy efficiency in different economic sectors in the context of climate change
- Demonstrate principles of energy efficiency finance options and the role of providers of finance

Content

- Introduction to energy efficiency projects
- Setting the scene - energy efficiency and the global experience
- Definitions, standards and technical terms
- Financing of energy efficiency projects

Support mechanisms for energy efficiency projects

After completion of this course, participants will be able to:

- Compare different barriers of energy efficiency deployment
- Identify the roles and competencies of political stakeholders in energy efficiency as well as the most common energy efficiency support mechanisms
- Analyse the benefits and drawbacks of the most common support mechanisms for energy efficiency projects
- Appraise the principle of bundling of different types of support mechanisms to achieve governmental goals

Content

- Necessity for energy efficiency policies
- Benefits of support mechanisms
- Types of energy efficiency policy measures
- Combining and assessing different measures

LEARNING OBJECTIVES & CONTENT OF THE COURSES



Systematic approaches to energy saving

After completion of this course, participants will be able to:

- Summarize the principles and scope of energy management systems
- Explain the principles and scope of energy audits
- Demonstrate the benefits that energy management systems and audits provide for companies to realise their energy saving potential
- Illustrate the barriers that exist towards energy management systems and audits

Content

- Energy management
- Energy Audits

Energy efficiency in industry – application

After completion of this course, participants will be able to:

- Determine areas of application for cross-cutting technologies in industry
- Prepare technical measures to enhance energy efficiency with regard to the respective cross-cutting technology
- Classify the saving potential of the technical measures to enhance the energy efficiency

Content

- Heating and cooling
- Electricity based cross-sectoral technology
- Sectoral approaches

Energy efficiency in buildings– application

After completion of this course, participants will be able to:

- Value the relevance of buildings in the context of climate mitigation
- Compare different energy efficiency standards for buildings
- Explain how climate factors affect structural measures and the energy consumption of buildings
- Illustrate benefits of energy efficiency in buildings
- Compare economics of green buildings with conventional type of building

Content

- Energy consumption in residential buildings and buildings in the service sector
- Buildings in different climate zones
- Energy efficiency policies and buildings standards
- Benefits of “green” buildings

LEARNING METHODS & ONLINE PLATFORM FEATURES



IMPORTANT FEATURES

- Multilanguage platform
- Discussion Forums
- Integrated Glossary
- Stream/Download videos
- Live webinars (EN, ES)
- Self-quizzes
- Online exams
- Personalised feedback on assignments

EARN YOUR CERTIFICATE

- Digital Certificate of Completion
(final grade 70% or above)
- Digital Certificate of Attendance
(final grade below 70%)

DEMO COURSE

For a first impression of our online platform, have a look at our demo course: [Demo Course](#)

TECHNICAL REQUIREMENTS

- An e-mail address, which is regularly checked
- A stable internet connection (at least 2 Mbit/s)
- We use Zoom for webinars
- Headset or speakers are required to participate on webinars



Programme certified by ZFU (German Central Office for Distance Learning – official quality standard for distance learning in Germany)

Contact

Cintia Guerrero
RENAC Online Academy Manager
Schoenhauser Allee 10-11, 10119 Berlin, Germany
Tel: +49 30 587 08 70 03
E-Mail: onlineacademy@renac.de

Scan to start your
learning journey



Editors

Renewables Academy (RENAC) AG

Graphic Design

Renewables Academy (RENAC) AG

Cover Picture Credit

Envato/ Canva Stock
