

**Certificate Course on Home Energy Audit
&
Empanelment of Home Energy Auditors**

Prospectus

Registration Starts from 12/05/2021



Energy Management Centre – Kerala

Under Department of Power, Govt. of Kerala

Sreekaryam P O, Thiruvananthapuram-17

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Energy Management Centre-Kerala is conducting a certificate course on Home Energy Audit (HEA) for the creation of a pool of Home Energy Auditors (HEAs) in Kerala. On completion of this course the HEAs can conduct Home energy audits as per the requirement of the consumer, also they can work as a consultant for the selection of home appliances and equipment at the design stage of houses.

About Energy Management Centre

Energy Management Centre was established in Thiruvananthapuram (Trivandrum), Kerala, India on February 1996 as an autonomous organization under the Department of Power, Government of Kerala. EMC has got a functional framework devoted to comprehensive and multi-disciplinary institutional objectives and orientation encompassing all aspects of energy, with a focus on energy-environment-development interactions. The guiding philosophy and school of thought of the Centre is "achieving sustainable development through enhancing total energy efficiency and application of renewable energy and environment friendly energy systems in all sectors of the economy". Also, EMC is the Designated Government agency to co-ordinate, regulate and enforce the provisions of the Energy Conservation Act 2001.

About Home Energy Audit Program

The highest electrical energy consuming sector in Kerala state is domestic sector, which is more than 49% of the total electrical energy consumption. Hence the domestic sector is one of the potential areas where we can bring various measures in energy efficiency and conservation and reduce the state's energy consumption and carbon foot print.

The Home Energy Audit Program is defined as a study of energy uses of various energy consuming equipment and appliances in a house and submission of a technical report with the solutions to bring energy efficiency and energy conservation. This leads to reduction in energy bills and carbon footprint of the consumer. EMC has designed 3 types of home energy audit solutions, details of the same attached as annexure 1.

About Certificate course on Home Energy Audit.

The home energy audit shall be done by EMC empanelled home energy auditors, who has successfully completed the 12-Hour certificate course on Home Energy Audit. On successful completion of Course, the list of Home energy auditors shall be published on EMC website as well as the Home Energy Audit website of EMC.

Home energy auditors can not only conduct the home energy audit but also act as a consultant for recommending energy efficient appliances and equipment during the design and construction stage of the houses.

On the successful completion of the course Energy Management Centre will empanel and classify the home auditors based on their performance in the assessment and the list of equipment they have to perform the home energy audit.

Eligibility criteria

Candidates who possess the following eligibility criteria can apply for this certificate course on Home Energy Audit and become an EMC Certified Home Energy Auditor.

Category A Home Energy Auditor

- I. Electrical Inspectorate certified Grade-C Electrical Contractors, Electrical Supervisors of Grade-B and above.

Category B Home Energy Auditor

- II. Final year Engineering students / Engineering Graduates in Electrical, Electronics and Mechanical Engineering.
- III. Candidates who holds a B-VoC degree in energy related subjects.

How to Apply

Candidates who possess the above eligibility criteria can apply online for this course through Energy Management Centre Website. Candidates has to upload the following details in JPEG/PDF format on the application form.

- Photograph
- Certificate of highest academic qualification
- Electrical Supervisor Licence / Other supporting documents
- Certificate for the proof of address

Syllabus

Session 1	Introduction to Energy Efficiency and Energy Conservation in Domestic Sector	1 Hour
Session 2	Energy Efficiency in Lighting System	1 Hour
Session 3	Energy Efficiency in fans and Air conditioners -Part 1	1 Hour
Session 4	Air conditioners - Part 2 and Refrigerators	1 Hour
Session 5	Energy Efficiency in pumping system	1 Hour
Session 6	Energy Efficiency in Geysers and electrical cooking appliances	1 Hour
Session 7	Energy Efficiency in other Kitchen appliances	1 Hour
Session 8	Energy Efficiency in other Electronic appliances	1 Hour
Session 9	Home energy auditing and report preparation	1 Hour
Session 10	Electrical safety and Earth leakage	1 Hour
Session 11	Miscellaneous Equipment- Inverter, TV, Computer etc.	1 Hour
Session 12	Renewable Energy Options in Domestic Sector Solar off-grid on-grid etc.	1 Hour

Assessment 1	Conducting a standard home energy audit with the provided data	
Assessment 2	Viva examination	

Course Fee

The Course fee for the certificate course is as follows. This includes the fee for examination, price of home energy audit manual and sample reports and guidelines. This course fee shall include the price of the reference book 'Home Energy Audit Manual' published by EMC.

Course fee	Rs. 3500/-
GST @ 18%	Rs. 630/-
Total	Rs. 4130/-

Scholarships and Discounts

For the first 200 eligible candidates there will be a scholarship of Rs 1500/-. This will be deducted from the course fee.

EMC shall provide one hard copy of Home Energy Audit Manual for free to all registrants of this course.

For more information

Contact Energy Management Centre office.

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