



PROPOSAL PAPER

Technical Seminar 2025



DELIVERY MODE	SEMINAR
TOPIC	Energy Audit Reporting Under the Act
DATE	15 th – 16 th January 2025
TIME	9.00am – 5.30pm
LOCATION	Mega Jati Academy Training Centre, Shah Alam
TRAINING MODE	Face-to-Face
CPD/CCD	CCD CIDB, CPD MBOT and CDP ST (Applied & Subject for Approval)

1.0 COURSE DESCRIPTION:

Energy audit reporting plays a crucial role in promoting energy efficiency and sustainability, particularly in industries and large facilities with high energy consumption. The Energy Commission (EC) of Malaysia mandates energy audits as part of the regulatory framework under the Efficient Management of Electrical Energy Regulations (EMEER) 2008. This regulation requires installations consuming 3 million kWh or more in six consecutive months to appoint a Registered Electrical Energy Manager (REEM) and conduct regular energy audits to identify energy-saving opportunities.

This training course provides participants with comprehensive knowledge and practical skills to prepare energy audit reports that comply with the Energy Commission's requirements. Participants will explore the principles of energy auditing, data collection techniques, energy performance analysis, and report preparation. They will also gain insights into regulatory obligations, best practices, and strategies for improving energy efficiency.

Designed for energy managers, engineers, and facility managers, this course emphasizes hands-on learning to ensure participants can apply auditing methods effectively. By the end of the program, participants will be equipped to conduct thorough energy audits, optimize energy usage, and contribute to organizational sustainability goals while meeting regulatory compliance. This course is essential for professionals committed to advancing energy efficiency in Malaysia's industrial and commercial sectors.

2.0 LEARNING OBJECTIVES:

- Demonstrate proficiency in conducting energy audits, including energy usage assessment, data collection, and identifying inefficiencies in energy systems.
- Develop skills to prepare energy audit reports that meet the Energy Commission's standards and regulatory requirements.
- Perform detailed analysis of energy consumption patterns, identify trends, and recommend actionable strategies for energy efficiency improvement.
- Evaluate energy systems and processes to pinpoint areas for optimization, such as equipment upgrades, process modifications, or behaviour changes.
- Integrate energy audit findings into broader sustainability strategies, helping organizations achieve long-term energy efficiency goals.

3.0 COURSE SCHEDULE:

15th January 2025 – Day 1

TIME	TOPIC
9.00 – 11.30am	Session 1: Introduction to Building Energy Audits <ul style="list-style-type: none">• Overview of energy audits and their importance.• Types and scope of building energy audits.• Energy consumption in buildings: Key components and systems. Activities: <ul style="list-style-type: none">• Interactive discussion on the benefits and challenges of energy audits in buildings.• Review of case studies demonstrating successful energy audits
11.30-1.00pm	Session 2: Energy Measurement Techniques <ul style="list-style-type: none">• Principles of energy measurement in buildings.• Tools and instruments: Energy meters, data loggers, temperature loggers, etc.• Best practices for accurate data collection. Activities: <ul style="list-style-type: none">• Hands-on demonstration with energy measurement instruments.• Practical exercise: Measuring energy consumption of a sample building system.
2.00– 5.30pm	Session 3: Data Collection and Preliminary Analysis <ul style="list-style-type: none">• Strategies for effective data collection.• Ensuring data accuracy and consistency.• Introduction to preliminary data analysis. Activities: <ul style="list-style-type: none">• Workshop: Creating data logs and organizing collected data.• Group exercise: Analysing a sample dataset to identify initial patterns and anomalies.

16th January 2025 – Day 2

TIME	TOPIC
9.00 – 11.30am	Session 4: Introduction to Building Energy Audits <ul style="list-style-type: none">• Detailed energy analysis methods: Load profiles, peak demand analysis, energy baselines.• Using software tools for data analysis (e.g., Excel, energy analysis software).• Identifying energy-saving opportunities in building systems (lighting, HVAC, insulation, etc.) Activities: <ul style="list-style-type: none">• Interactive discussion on the benefits and challenges of energy audits in buildings.• Review of case studies demonstrating successful energy audits
11.30-1.00pm	Session 5: Introduction to Building Energy Audits <ul style="list-style-type: none">• Structure and essential components of an energy audit report.• Best practices for data presentation and visualization.• Writing clear and actionable recommendations.• Effective communication with stakeholders. Activities: <ul style="list-style-type: none">• Interactive discussion on the benefits and challenges of energy audits in buildings.• Review of case studies demonstrating successful energy audits
2.00-5.30 pm	Session 6: Final Project and Assessment <ul style="list-style-type: none">• Conducting a mini energy audit of a selected building area.• Preparing a concise energy audit report and presentation.• Presenting findings and recommendations to the class. Assessment: <ul style="list-style-type: none">• Evaluation based on the accuracy, thoroughness, and clarity of the final project report and presentation.

4.0 PROGRAM FEE

The published fees for this program are as follows:

NO	DETAIL	FEE
1	Energy Audit Reporting Under the Act	RM 888/pax

The fee proposed is exclusive all for Mega Jati Academy's expenses **excluding** 8% service tax and this course is **HRD-Corp Claimable under SBL-KHAS Scheme.**

5.0 POSTER PROGRAM



CPD/CCD/CDP Awarded by:
*All CPD/CCD are applied. Subject for approval



Collaboration Partner:
www.construction.org.my



CONSTRUCTION
PERSONNEL MALAYSIA
www.construction.org.my

HANDS-ON CLASS

ENERGY AUDIT REPORTING UNDER THE ACT



15-16 January 2025 Shah Alam, Selangor RM 888/pax

Invited Speaker:
Ts. Azizah Kassim

This training course provides participants with comprehensive knowledge and practical skills to prepare energy audit reports that comply with the Energy Commission's requirements. Participants will explore the principles of energy auditing, data collection techniques, energy performance analysis, and report preparation. They will also gain insights into regulatory obligations, best practices, and strategies for improving energy efficiency. This course is essential for professionals committed to advancing energy efficiency in Malaysia's industrial and commercial sectors.

Course Content

Day 1: 15th January 2025

- Introduction to energy audits under the acts
- Types and scope of energy audits
- Energy consumption, key components & systems
- Energy Measurement Techniques
- Best practices for accurate data collection.
- Data Collection and Preliminary Analysis
- Introduction to preliminary data analysis.
- Strategies for effective data collection
- Ensuring data accuracy and consistency.

Day 2: 16th January 2025

- Introduction to Building Energy Audits
- Detailed energy analysis methods
- Using software tools for data analysis
- Structure & components of an energy audit report.
- Best practices for data presentation and visualization.
- Writing clear and actionable recommendations.
- Effective communication with stakeholders
- Conduct a mockup energy audit
- Preparing a concise energy audit report



Any inquiries please contact us at:
+6012 697 6429 (Ms. Aliya Azrina)



Please log on to our website to register:
www.megajatiacademy.com/technical-seminar



6.0 TRAINER PROFILE



Ts. AZIZAH KASIM

She has more than 25 years experiences in Energy Efficiency, Renewable Energy, Green Building, Facility Management and Project Management. High driven and focus in her work, attentive, and always keeping abreast with technological advancement, especially with the emerging Industrial Revolution 4.0 – always think and try to do things differently with more innovative approach and with the least possible cost without compromising quality and output. Expert in managing client's utility accounts for lowest possible energy cost, delivers unquantifiable amount of cost savings since 1999. The first three years of her career has been dedicated on Project Management for High Voltage Overhead Transmission Line, and since 1999 until present, she has been involved in Energy Efficiency and Energy Management for commercial and industrial users in Malaysia and other parts of the world. Her expertise has brought her to Hong Kong, Australia, Singapore and Dubai for consultancy and knowledge sharing. Conducted more than 100 detailed energy audits and educated more than 500 personnel, achieved excellent results in almost all project she has been involved in. She is also a Certified Professional in Measurement & Verification (M&V), and she put very high emphasis in developing rigorous M&V programmes for her clients. Apart from that, she is also a Certified System Integrator and her niche skill set is also in understanding and implementing proper control strategies for both building and industrial facilities such as control for Chillers Plant, AHU, Compressors, Boilers, Waste Heat Recovery, etc.

Professional Cetifications

1. Registered Electrical Energy Manager (REEM) by Energy Commission – PTE 0032 - 2012
2. Certified Energy Auditor, MAESCO
3. Certified Energy Auditor, Association of Energy Engineer (AEE)
4. Certified Professional in Measurement and Verification – MGTC/CPMV/15/013
5. National EnMS (Energy Management System) Expert by UNIDO
6. Green Building Index Facilitator, GBIF/0283
7. Certified Trainer by HRDC, TTT /0496
8. Certified System Integrator by Building Automation System Association Malaysia, 2019
9. Certified Thermal Energy Manager, MAESCO, 2020 (MCTEM-008-2020)
10. Expert Thermal Energy Recovery Technologist (TERT) – OPT 12212 (2021) Vice Chairman Institution of Engineers Malaysia (IEM) Melaka

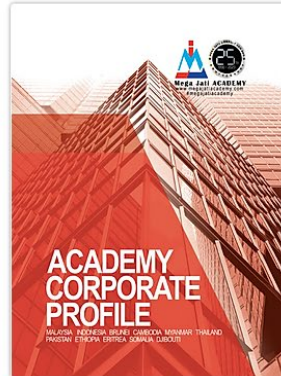
7.0 MEGA JATI ACADEMY

Get all these books
FOR FREE

All books provides you with the complete information of our nature of business in year 2024



Download



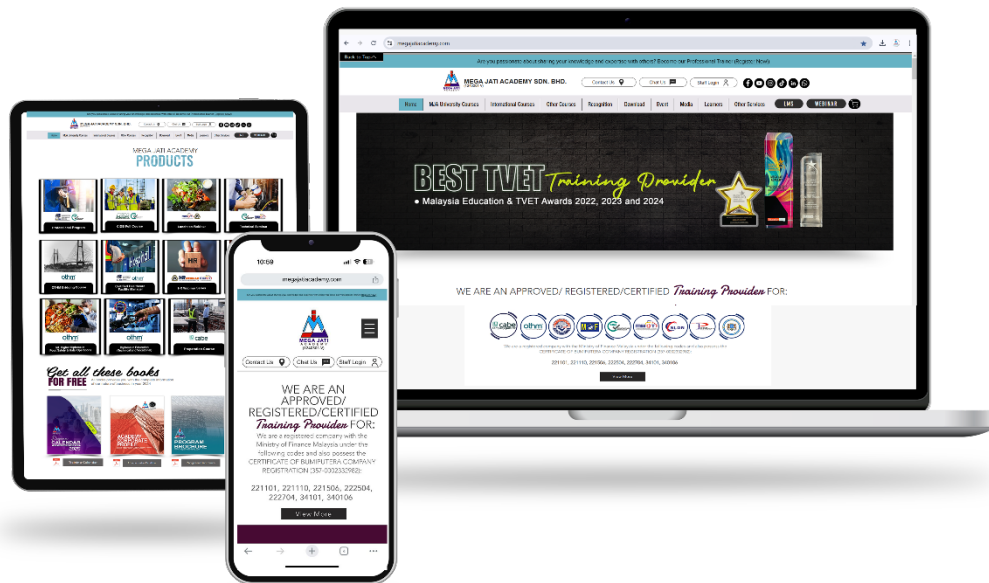
Download



Download

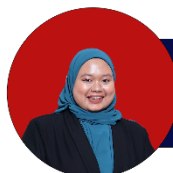


Download



Click here to visit our Official Website

Any inquiries regarding this proposal paper, you may contact me at:



ALIYA AZRINA
+6012 697 6429
Program Executive