



Mega Jati Academy Sdn. Bhd.

COMPLEMENTARY:
This course is registered under SBL-KHAS of HRDCorp

Energy Audit for Building -Energy Measurement, Energy Analysis & Reporting

<https://www.megajatiacademy.com/suruhanjaya-tenaga>

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2024

Energy Audit for Building -Energy Measurement, Energy Analysis & Reporting

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1.0 INTRODUCTION

This intensive 2-day course is designed to equip participants with essential skills and knowledge to perform energy audits specifically for buildings. The course covers key aspects of energy measurement, data analysis, and effective reporting techniques to identify energy-saving opportunities and enhance building energy efficiency.

2.0 PROGRAM OBJECTIVES

Solid teamwork is foundational to the success of organizations and building a strong team start with an individual member. A team building event by Mega Jati Academy is designed for participants to interact in an open and safe environment, have fun and achieve one or combinations of the following objective(s):

- Understand the fundamentals of building energy audits.
- Learn techniques for measuring energy consumption in buildings.
- Develop skills in analyzing energy data.
- Gain proficiency in preparing and presenting energy audit reports.

3.0 PROGRAM METHODOLOGY

- Lecture
- Hands-on activity reflection for the application in real-work scenarios
- Assessments

4.0 COURSE SCHEDULE

Date	Time	Topic
21.08.2024	9am-11.30am	<p>Session 1: Introduction to Building Energy Audits</p> <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. <p>Activities:</p> <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
	11.30am-1pm	<p>Session 2: Energy Measurement Techniques</p> <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. <p>Activities:</p> <ul style="list-style-type: none"> • Hands-on demonstration with energy measurement instruments. • Practical exercise: Measuring energy consumption of a sample building system.
	2pm-5.30pm	<p>Session 3: Data Collection and Preliminary Analysis</p> <ul style="list-style-type: none"> • Strategies for effective data collection. • Ensuring data accuracy and consistency. • Introduction to preliminary data analysis. <p>Activities:</p> <ul style="list-style-type: none"> • Workshop: Creating data logs and organizing collected data. • Group exercise: Analyzing a sample dataset to identify initial patterns and anomalies.
22.08.2024	9am-11.30am	<p>Session 4: Introduction to Building Energy Audits</p> <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.) <p>Activities:</p> <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

Date	Time	Topic
22.08.2024	11.30am-1pm	<p>Session 5: Introduction to Building Energy Audits</p> <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. <p>Activities:</p> <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
	2pm-5.30pm	<p>Session 6: Final Project and Assessment</p> <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. <p>Assessment:</p> <ul style="list-style-type: none"> • Evaluation based on the accuracy, thoroughness, and clarity of the final project report and presentation.

6.0 PROGRAM FEE

The published fees for this program are as follows:

NO	DETAIL	FEE/PAX
1	Energy Audit for Building -Energy Measurement, Energy Analysis & Reporting	888

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

7.0 PAYMENT PROCESS

Payment can be made to Mega Jati Academy account as follow:

NO	TYPE OF PAYMENT	ACCOUNT NAME	BANK	ACCOUNT NUMBER
1	Cash, Cheque, Transfer	Mega Jati ACADEMY Sdn Bhd	Bank Islam Malaysia Berhad, Bandar Sri Damansara	1427-401000-7241 SWIFT CODE: BIMBMYKL
4	HRDCorp SBL Khas Scheme	Mega Jati ACADEMY Sdn Bhd	N/A	1240301V



CPD-Self Declare



Applied. Subject to Approval



MEGA JATI
ACADEMY



CCD POINTS
Applied. Subject to Approval



ENERGY AUDIT FOR BUILDING

Energy Measurement, Energy Analysis & Reporting

Hands-on Training Session

21-22 Aug 2024 | Shah Alam, Selangor | RM 888/pax

Objective Course:

- Understand the fundamentals of building energy audits.
- Learn techniques for measuring energy consumption in buildings.
- Develop skills in analyzing energy data.
- Gain proficiency in preparing and presenting energy audit reports.



Ts. Azizah Kassim

Day 1: 21st August 2024

Day 2: 22nd August 2024

Fundamentals and Energy Measurement

Energy Analysis and Reporting

● Introduction to Building Energy Audit

- Overview of energy audits and their importance.
- Types and scope of building energy audits.
- Energy consumption in buildings: Key components & systems.

● Energy Management Technique

- Principles of energy measurement in buildings.
- Tools and instruments: Energy meters, data loggers, temperature loggers, etc.
- Best practices for accurate data collection.

● Data Collection and Preliminary Analysis

- Overview of energy audits and their importance.
- Types and scope of building energy audits.
- Energy consumption in buildings: Key components & systems.

● Advanced Energy Analysis Techniques

- Detailed energy analysis methods: Load profiles, peak demand analysis, energy baselines.
- Using software tools for data analysis
- Identifying energy-saving opportunities in building systems

● Energy Audit Reporting

- 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.

● Final Project and Assessment

- Conducting a mini energy audit of a selected building area.
- Preparing a concise energy audit report and presentation.



Any inquiries please contact us at:

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(Ms. Aliya Azrina)



Please log on to our website to register:

www.megajatiacademy.com/suruhanjaya-tenaga



For help and further information please contact:

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<https://www.megajatiacademy.com/suruhanjaya-tenaga>