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INDUSTRIAL ENERGY AUDITS OVERVIEW
ONLINE PROFESSIONAL COURSES LED BY THE WORLD'S TOP SPECIALISTS
ONLINE TRAINING BY KRISHNAJI PAWAR
LEED AP(BD+C),GSAS CGP,GCP,ISO 14001
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MODULE 6

Benefits of Industrial Energy Audits

KRISHNAJI PAWAR - CEO & FOUNDER

LEED AP(BD+C),GSAS CGP,GCP,ISO 14001

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INDUSTRIAL ENERGY AUDITS OVERVIEW

An energy audit evaluates a company's energy usage, using advanced diagnostic technology to identify energy waste and recommend cost-effective solutions without negatively impacting business operations, aiming to improve efficiency.

Learning Objectives

- Introduction
- Principles and Concepts of Energy Assessment
- Types of Energy Audits or Assessments
- Role of an Energy Auditor or Manager
- Energy Assessment and Audit Professional Certification
- Benefits of Energy Audits or Assessments
- Summary and Resources

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INTRODUCTION

- Energy Audit Benefits and Importance
- Determines energy consumption and potential savings in a facility.
- Reduces energy costs, improving company competitiveness.
- Reduces dependence on foreign energy sources.
- Reduces environmental damage and pollution.
- Increases energy supply security.
- Reduces consumption of natural resources.
- Reduces environmental damage from resource exploitation.
- Reduces greenhouse gas emissions impact.
- Lowers energy bills.
- Enhances facility comfort.
- Increases equipment lifespan.
- Identifies unaccounted consumption.
- Helps eliminate waste, maximize efficiency, and optimize energy supply.

ENERGY EFFICIENCY IN INDUSTRIAL FACILITIES

- Reduced energy usage can save up to 30%.
- Energy Star suggests using energy-efficient technologies and business practices.

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IDENTIFY EQUIPMENT PROBLEMS.

- Identifies equipment issues, such as small leaks in compressed air systems.
- Detects health risks like carbon monoxide from improperly vented equipment.
- Promptly addresses these issues to ensure staff health and safety.

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INCREASED EMPLOYEE COMFORT

- Improved insulation and air sealing.
- Enhanced space reliability and efficiency.
- Increased employee comfort.
- Increased productivity.
- Reduced energy costs.
- Improved business profitability.

PERSONALIZED ENERGY RECOMMENDATIONS FOR BUSINESSES

- Utilize energy experts to learn about new energy-efficient technologies.
- Customize a plan for your business, recommending upgrades for maximum return.
- Consider upgrades like updated lighting, new HVAC, and weatherization measures.
- Despite initial costs, many recommendations pay for themselves quickly with reduced energy expenses.

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PROMOTING ENVIRONMENTAL CONCERNS

- Showing company care for environmental impact.
- Reaching environmentally conscious customers.
- Encouraging energy efficiency.

INCREASED PROPERTY VALUE

- Energy Audit Recommendations for Property Value Increase
- Implementing energy efficient measures like solar panels, LED lighting, and weatherization.
- These measures boost property value.
- Advocate for "green" practices within budget.

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INCREASED EQUIPMENT DURABILITY

- Energy Audit Recommendations for Equipment Durability
- Upgrading equipment can optimize energy savings.
- Modern, energy-efficient equipment performs as well as older units with less effort.
- Upgraded equipment can last for extended periods.

FINAL CONCLUSION

- Provides detailed breakdown of building's consumption for effective energy efficiency measures.
- Increases ROI of building renovations by identifying long-term cost-saving upgrades.
- Determines carbon footprint of the building due to emissions' correlation.
- Identifies equipment malfunctions and maintenance issues to prevent major breakdowns.



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CONTACT US

+91 6363032722

info@beyondsmartcities.in

learn.beyondsmartcities.in

#55,HMR Layout ,Bengaluru ,India



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