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THE BENEFITS OF AN ASHRAE LEVEL II AUDIT TODAY

We are here to shed light on the significance of an ASHRAE Level II Audit, a comprehensive assessment is the standard set for by the American Society of Heating, Refrigerating, and Air-Conditioning Engineers (ASHRAE) to evaluate a building's energy usage and efficiency.

This audit is designed to pinpoint opportunities for energy conservation and cost savings by scrutinizing the performance of various systems and components within the building.

KEY POINTS

01 Comprehensive Assessment: ASHRAE Level II audits involve detailed data collection, analysis, and on-site inspections to evaluate the energy consumption of HVAC systems, lighting, building envelope, and other energy-related equipment.

02 Audit Process:

- ⦿ Data Collection: Gathering comprehensive data on energy usage, building characteristics, occupancy patterns, and equipment specifications.
- ⦿ Energy Analysis: Assessing energy bills, utility meter data, and other information to evaluate energy performance.
- ⦿ On-Site Inspection: Evaluating the condition and efficiency of energy-related systems and components.

- ⦿ Performance Analysis: Assess Energy performance to illustrate potential conservation measures.
- ⦿ Recommendations: Developing a list of recommended energy conservation measures with estimates of savings and costs.
- ⦿ Report Generation: Compiling findings into a comprehensive report outlining current performance and improvement areas.

03 Benefits:

- ⦿ **Insights into Energy Usage:** Understand how energy is utilized in the building.
- ⦿ **Cost Savings:** Identify areas for improvement to reduce operating costs.
- ⦿ **Enhanced Efficiency:** Actionable work order items to implement measures to reduce waste.
- ⦿ **Sustainability Goals:** Achieve sustainability objectives through targeted measures.

In conclusion, an ASHRAE Level II Audit offers invaluable insights for optimizing efficiency, reducing costs, and enhancing occupant comfort. It serves as a roadmap for implementing tailored energy conservation measures and achieving sustainability goals.

SOME OF THE DIFFERENT TYPES OF BUILDING ENERGY AND EFFICIENCY AUDITS

Building Investment Return Management™ (BIRM)

- ⦿ Energy Star Benchmark (policy & procedure by some states)
- ⦿ ASHRAE level II Audit
- ⦿ EUI Roadmap and Strategy
- ⦿ Infrastructure Roadmap and Strategy
- ⦿ Asset Optimization Roadmap and Strategy
- ⦿ Digitization creating the "Living Building"



Conducting an ASHRAE Level II audit for hospitals offers several benefits, including:

- ⦿ Energy and Cost Savings: The audit provides opportunities to save energy and water, leading to reduced utility costs
- ⦿ Detailed Analysis: Level II audits involve in-depth data collection, analysis, and on-site inspections to evaluate energy consumption, building characteristics, and system performance
- ⦿ Identification of Energy Conservation Measures (ECMs): The audit helps identify potential ECMs such as improvements in HVAC systems, lighting, building envelope, and other energy-related equipment
- ⦿ Financial Incentives: Building owners can receive monetary incentives for improving energy efficiency through utility and local government programs
- ⦿ Enhanced Efficiency: Implementing recommendations from the audit can lead to improved energy efficiency, reduced operating costs, and enhanced occupant comfort
- ⦿ Detailed Recommendations: The audit report includes a list of recommended ECMs with estimates of potential energy savings, costs, and payback periods
- ⦿ Sustainability Goals: ASHRAE Level II audits serve as a roadmap for achieving sustainability objectives through targeted energy conservation measures in summary, conducting an ASHRAE Level II audit for hospitals can result in significant energy savings, improved efficiency, and a clearer path toward sustainability goals.

Some challenges that hospitals may face when implementing energy conservation measures based on the results of an ASHRAE Level II audit include:

- ⦿ Economic Barriers: Hospitals often encounter economic challenges related to funding energy efficiency projects, which can hinder the implementation of recommended measures
- ⦿ Organizational Barriers: Hospital management and strategic obstacles may interfere with the execution of energy efficiency projects within the facility
- ⦿ Regulatory and Legislative Hurdles: Compliance with regulations and legislation can pose barriers to implementing energy conservation measures, limiting the options available to hospitals
- ⦿ Operational Challenges: Hospitals operate 24/7 and deal with vulnerable populations, making it difficult to access areas in need of energy retrofits without disrupting critical operations or patient care
- ⦿ Lack of Information: Some hospitals may lack historical data on energy consumption, making it challenging to assess the effectiveness of implemented measures or plan for future improvements
- ⦿ Physical Constraints: Maintaining daily operational standards ensuring minimal disruption during renovations can be particularly challenging in hospital environments, especially when implementing HVAC improvements
- ⦿ Monitoring Systems: Inadequate energy metering and monitoring systems in hospitals can make it challenging to accurately track energy consumption, particularly for specific systems like cooling



In summary, hospitals face a range of obstacles when implementing energy conservation measures following an ASHRAE Level II audit, including financial constraints, organizational barriers, regulatory issues, operational challenges, lack of information, physical constraints, and for monitoring system limitations.

Addressing these challenges effectively is crucial for hospitals to achieve improvements in energy efficiency and reduce operational costs successfully.

Let's work together towards a more efficient and sustainable future for your hospital.

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