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GREEN CLASSROOM PROFESSIONAL GCP CERTIFICATE REFRESHER

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ONLINE TRAINING BY KRISHNAJI PAWAR

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MODULE
22

Innovation & Conclusion

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In recent years, school buildings have undergone significant changes due to emerging design principles and new technologies. These advancements aim to create environments that are not only conducive to learning but also sustainable and adaptable to the needs of students and teachers. Sustainable design includes features such as solar panels, green roofs, natural lighting, flexible learning spaces, technology integration, community engagement, and community use spaces.

Learning Objectives

- Green school buildings are dynamic learning environments.
- Operations and Maintenance for Whole School Sustainability
- Meaningful, purposeful, and engaging learning
- Sustainable Grounds & Transportation
- Indoor Environment—Air Quality
- Smart Cleaning & Integrative Pest Management
- Indoor Environment—Acoustics
- Water Efficiency and Quality
- Energy Efficiency—Lighting
- Plug Loads & HVAC Systems
- Materials and Resources
- Innovation & Conclusion
- Summary and Resources / GCP Quiz

INTRODUCTION

- Schools can integrate health, sustainability, and community engagement into their curricula to foster a holistic educational environment.
- This guide presents strategies and practices for schools to promote healthy eating habits and physical activity.

Promoting Healthy Eating in Schools

- Schools should evaluate their lunch menus to meet nutritional guidelines.
- Schools can partner with local farms to source fresh produce.
- Schools can redesign vending machine options to encourage healthier snacking habits.
- Establishing school gardens provides students with hands-on experiences in growing their own food.

Encouraging Physical Activity

- Schools should cultivate an environment conducive to physical activity.
- Strategies include active transportation initiatives, physical education and recess, and community engagement.



INNOVATION, EXERCISE, AND HEALTHY EATING



School-Community Connections

- Schools can act as catalysts for broader environmental initiatives.
- Schools can participate in recycling drives and environmental partnerships.

School as a Teaching Tool

- The physical infrastructure of a school can serve as an invaluable teaching resource.
- Schools can create immersive learning experiences through renewable energy education, ecosystem studies, and organic gardening.

Taking Action at Your School

- Schools should incorporate green curriculum, engage in community programs, and communicate and advocate for healthier food options and increased physical activity.

RECOGNIZING OPPORTUNITIES FOR INNOVATIVE ACTIONS



- **Technology Integration:** Utilizing smart sensors to monitor energy consumption and environmental conditions can empower students to engage in real-time data analysis.
- **Experiential Learning through Outdoor Classrooms:** Creating outdoor classrooms or utilizing school gardens provides hands-on learning experiences that bridge the gap between theory and practice.
- **Collaborative Projects with the Community:** Involving students in projects that address real-world environmental challenges can foster innovation.
- **Curriculum Development Focused on Sustainability:** Integrating sustainability into various subjects can create a multidisciplinary approach that emphasizes the importance of environmental stewardship.

SUSTAINABLE DESIGN PRINCIPLES

- Biophilic Design: Connects students with nature, enhancing well-being and cognitive function.
- Flexible Learning Environments: Modern classrooms are designed with flexibility, allowing for a variety of learning configurations.
- Energy Efficiency: Features like high-performance insulation, energy-efficient windows, and strategically placed skylights significantly reduce energy consumption.



INTEGRATION OF TECHNOLOGY

- Smart Classroom Technologies: Internet of Things (IoT) devices optimize conditions for learning while minimizing energy use.
- Virtual Reality (VR) and Augmented Reality (AR): Provide immersive learning experiences related to environmental science and sustainability.
- Digital Collaboration Tools: Platforms like Google Classroom or Microsoft Teams facilitate collaborative projects that can extend beyond the classroom.



EDUCATIONAL METHODOLOGIES

- Project-Based Learning (PBL): Encourages students to engage in real-world projects that address environmental challenges.
- Place-Based Education: Emphasizes the use of the local environment as a context for learning.
- STEM Integration: Integrates science, technology, engineering, and mathematics (STEM) into green classroom practices.



THANK YOU

