

ONLINE COURSE:

# Introduction to Green Buildings and Sustainable Design

A critical introduction to green buildings  
in the South African context



- Learn about green building design strategies, techniques, and methods
  - Explore issues related to the built environment and sustainability
  - Develop practical skills to address issues in the design and making of buildings
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WHY THIS COURSE?

# Now is the time to build green.



Green buildings are shown to benefit both the environment and the people who inhabit them. These structures prioritise energy efficiency, resource conservation, and the use of eco-friendly and sustainable materials. They can come in many shapes and sizes, from large scale commercial buildings, shopping centres and warehouses, to small individual homes.

But what is a green building exactly, and how we evaluate, prepare, and apply green building design strategies, techniques, and methods in our work in the building industry?

**This course has been developed for students and professionals across the built environment, to enable a critical understanding of what makes a building green, and how to apply this from design strategies to practical techniques and methods.**

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When: From January 2024

7 modules, of approximately 10 hours total of self directed online learning

Fees: R500.00 Incl VAT

Starting date:  
15 January 2024



## COURSE OUTCOMES



# Upon completion of the course, you will:

Have a critical understanding of what a green building is, and the various “shades of green”.

Be equipped with a basic ability to evaluate, prepare, and apply green building design strategies, techniques, and methods.

Have explored issues related to the built environment and sustainability in South Africa.

Feel confident in engaging with others, and contributing to green building projects.



## WHAT YOU WILL LEARN



Through this course you will gain a comprehensive introduction to the value and concept of Green Buildings in the South African context.

You will gain insight to the economic, environmental, and social value associated with sustainable green building principles.

Together, we will unpack Green Building case studies to offer practical guidance on the application of green building design strategies, techniques, and methods.

You also will gain an understanding of the key components of energy and water consumption in buildings to minimize cost and increase efficiencies.

We will dive deeper the environmental impacts driven by building construction processes, and discuss the benefits of implementing more sustainable measures at various scales.

**Overall, you will come out of this course with a solid foundational understanding of working with green buildings in a South African context.**





## IS THIS COURSE FOR YOU?

This course provides a comprehensive introduction to green building in South Africa. It is ideal for professionals seeking to be involved in buildings that are more sustainable, more resilient and have a positive impact on people and planet.

- Property industry professionals such as Architects, Interior Designers, Engineers Town Planners, Quantity Surveyors, Construction and Project Managers
- Building Contractors and Developers
- Facility Managers
- Academics
- Environmentalists- EIA Professionals



The course is set out in seven modules easily accessible via the GBCSA eLearning Platform, for participants to attend at their own pace and in their own time. It is well suited for busy professionals, and can be accessed at any time.





## DETAILS

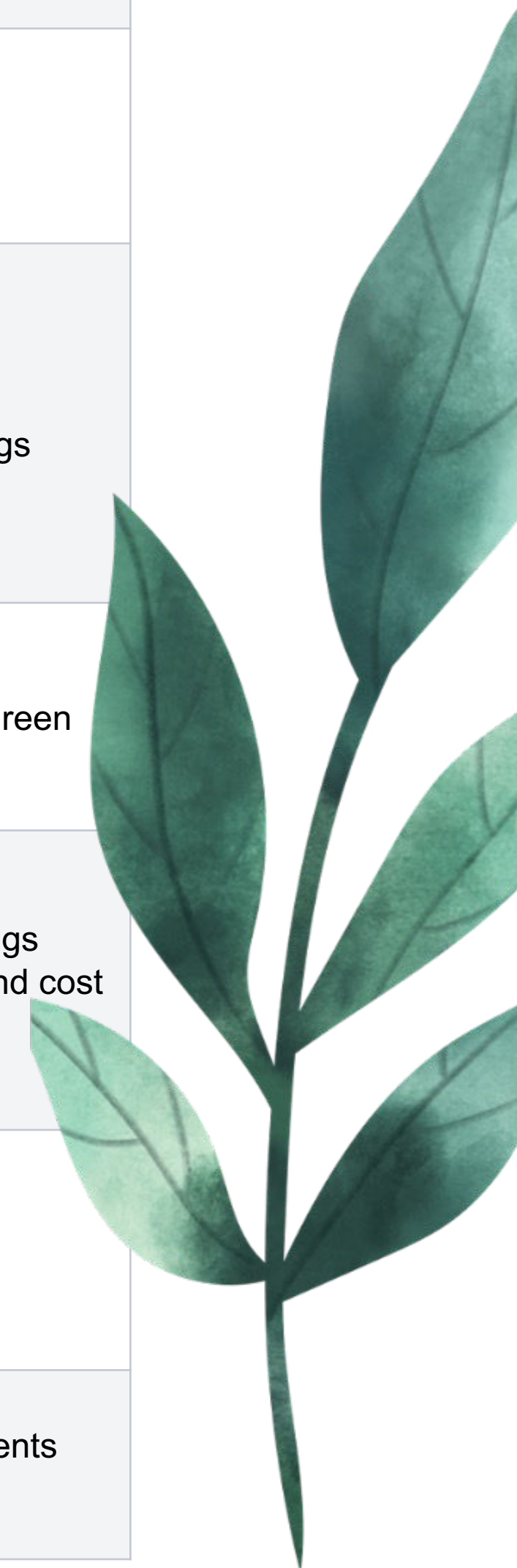
# Course Curriculum

The course is delivered on the GBCSA eLearning platform and consists of 7 modules.

Each module has topics and assignments.

Extra reading resources are uploaded in the library folder to enrich your understanding

<b>Module 1: The Concept of a Green Building</b>	Defining Green Buildings Why the need for green buildings Why are green buildings are critical to our survival Analysing the Environmental impacts of building design Green Buildings globally
<b>Module 2: Energy and Water Conservation</b>	What are Energy Efficient Buildings Articulating the concept of energy use in buildings Water conservation technologies and strategies
<b>Module 3: The Benefits and values of a green building</b>	The Environmental Impact of Green Buildings: Understanding the relationship between green buildings and biodiversity. Explaining the fundamentals of resource preservation in buildings Explaining the impact of energy consumption and air pollution Articulating waste minimization strategies.
<b>Module 4: The Benefits and values of a green building-</b>	Social Impact of Green Buildings: Identifying the elements that contribute to Social benefits of a Green Building
<b>Module 5: The Benefits and values of a green building-</b>	Economic Impact of Green Buildings: Unpacking and explaining the financial benefits of green Buildings Understanding the relationship between energy consumption and cost savings in a buildings Describing the business case for green-rated buildings.
<b>Module 6: GBCSA Certification Tools</b>	Green Star certification tools GBCSA NET ZERO certification tools EDGE: A Green Building Standard
<b>Module 7: Green Building Design Strategies- GBCSA Case Studies</b>	We look at real life case studies of green buildings, their achievements and challenges





FOR MORE INFORMATION

## Contact us at GBCSA Academy

For more information about the course, as well as package options for students, please contact us at GBCSA Academy. We would be happy to answer any queries.

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**GBCSA**

**A C A D E M Y**

*Insight to Sustainability*