



Designing for Greater Efficiency (DfGE) Online

Learn to Design and Market Green Buildings

DfGE online is offered by IFC, a member of the World Bank Group, to facilitate the construction sector's transition onto a low carbon path.

The drive towards sustainability in the built environment represents both a challenge and business opportunity for building design professionals. And it is something that simply cannot be ignored. Designers must develop the skills, knowledge, and attitudes to support the built environment's move onto a low-carbon path.

IFC's DfGE online is a 16-hour course aimed at senior building design students and working professionals (i.e. architecture, structural and building services engineering).

DfGE covers the fundamentals of energy and resource efficiency measures in building design from a technical and commercial perspective. The course uses case studies and examples to teach students how to design for resource-efficiency and how to sell those designs in a commercial setting.



Register for DfGE online: edgebuildings.com/design-for-greater-efficiency

Course Outline and Certification

Module 1 Green Buildings in Context

Module 2 Form, Skin, & Climate

Module 3 Engineering Architecture:
HVAC & Controls

Module 4 Lighting & Photovoltaics

Module 5 Water & Materials

Module 6 Making the Business Case

Module 7 Final Design Exercise

The final design project will be submitted online for evaluation by an assigned evaluator

Upon successful completion of the DfGE online course, students will receive a certificate of completion from IFC.

Course Outcome

On completing this course, you will be able to:

- ▶ **Develop** critical thinking skills, quantitative skills, and design approaches
- ▶ **Conceptualize** and **integrate** green features across multiple disciplines and building types
- ▶ **Quantify the impact** of design strategies to reduce energy and water consumption in operations and embodied energy in materials using IFC's EDGE building design software
- ▶ **Articulate** a compelling business case for sustainable design
- ▶ **Communicate** design strategies and choices effectively with clients and other building stakeholders, including owners, investors, and other design team members
- ▶ **Demonstrate** knowledge of **green measures** and their relative cost-benefit implications

Further Details

DfGE online is a 16-hour course that can be taken at your own time and pace. Students will have three months to access course materials and to complete the course. It is recommended that students have a working knowledge of database software (i.e. MS Excel), architectural and engineering drawings, and basic mathematics.

If you have any questions, please contact edgelearn@ifc.org.



DfGE online received significant funding from the EU.

EDGE is currently funded by the UK Government with original funding by Switzerland's State Secretariat for Economic Affairs (SECO).

 UK Government



Schweizerische Eidgenossenschaft
Confédération suisse
Confederazione Svizzera
Confederaziun svizra

Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER
State Secretariat for Economic Affairs SECO

Additional support has been provided by Austria, Canada, Denmark, ESMAP, EU, Finland, GEF, Hungary, and Japan.

