



SC039:

Sustainable Buildings: *Standards and Best Practice*



JAS-ANZ



ACTVET
Riba Dhabi Centre for
Technical and Vocational
Education and Training



EFQM
Member





Training Description:

The sustainable construction movement has gained significant strength and momentum over recent years. It is now international in scope with almost 60 national Green Building Councils (including in the UAE) establishing ambitious performance goals for the built environment in their respective countries.

In this intensive course, participants will gain a clear understanding of sustainable construction and its implications within the GCC and will take into consideration the region's legal framework and Green Building Guidelines.

The course covers key things to consider at the design and planning stages of a project in order to incorporate sustainable construction principles, including choice of materials. Additionally, the course will introduce participants to Environmental Management Systems (EMS) and review their effectiveness in the construction context, as well as Green Building Certification schemes and their role in achieving elevated environmental standards and performance.

Participants will examine a range of methodologies to help them develop their skills as a 'Sustainability Champion' at a project level. A Sustainability Action Plan will be developed by each participant and form the basis of an effective sustainable agenda to be implemented in their organization.

Training Objectives:

By the end of the training, participants will be able to:

- ✓ Define sustainable construction and address sustainability challenges at key stages of a project life-cycle
- ✓ Implement an effective Environmental Management System (EMS) and assess environmental risks, thereby improving environmental performance at the project level
- ✓ Comply with the region's legal framework and Green Building Guidelines to protect, and where possible, enhance the physical environment
- ✓ Elevate environmental standards and performance across various structures in the built environment by following Green Building Certification schemes such as the Leadership in Energy and Environmental Design (LEED) Certification
- ✓ Develop and implement a Sustainability Action Plan (SAP) for existing and future construction projects, and identify the tangible benefits for their organization

Training Designed for:

This course is intended for anyone seeking to discover ways of creating a more sustainably built environment. This could include Construction Project Managers, Civil Engineers, Architects, Landscape Architects, Contract Managers, Site Managers/Agents and environmental professionals. Anyone involved with designing, creating, operating, renovating and/or demolishing structures in the built environment will also highly benefit from this course.

Training Program:

DAY ONE:

- ❖ Pre-Test
- ❖ Introduction





❖ The Case for Sustainability in Construction

- Defining sustainability and its benefits
- Origins of sustainability
- Sustainable development
- Current hot topics
 - Climate change
 - IPCC reports
 - Water resources
 - Soil erosion
 - Raw materials
 - Energy demand

DAY TWO:

❖ Legal Framework

- Department of Planning and Development
- Emirates Green Building Council
- Environmental/social governance
- Green growth knowledge platform
- Key focus areas (compliance)
 - Air environment
 - Water environment
 - Hazardous materials
 - Waste management
 - Noise control
 - Environment reporting
 - Administration
 - Enforcement
 - Permitting (54 areas)
 - Site visits/inspections

DAY THREE:

❖ Environmental Management Systems (EMS) in the Construction Industry

- Effective EMS and site controls
- EMS requirements - ISO 14001: 2004/15
- Background and context
- Key ISO elements
 - Environmental aspects
 - Policy
 - Objectives and targets
 - Programs
 - Audits
 - External validation

❖ Green Building Guidelines – Focus on UAE

- Dubai Strategic Plan 2015 (2007)
- Aims, objectives, aspirations





- 5 focus areas
 - Envelope efficiency
 - Cooling systems
 - Energy efficiency
 - Water use and efficiency
 - Indoor environmental quality

DAY FOUR:

❖ Leadership in Energy and Environmental Design (LEED)

- LEED applicability
- Examples of LEED projects
- Core LEED elements
 - Site selection
 - Water efficiency
 - Energy and atmosphere
 - Materials/resources
 - Indoor environment
 - Innovation
 - Building Research Establishment Environmental Assessment Methodology (BREEAM)
 - Civil engineering
 - Environmental Quality Assessment and Award Scheme (CEEQUAL)

DAY FIVE:

❖ Sustainable Building Design and Procurement

- Challenges faced
- Physical environment
- Fundamental design features
- Procurement
 - Sourcing materials
 - Sustainable suppliers
 - Life cycle analysis
 - Product selection
 - Green Building Council (GBC)

❖ Championing Sustainability at Project Level

- Sustainability Action Plan (SAP)
- The implementation challenges
- What will you do differently tomorrow?

❖ Course Conclusion

❖ POST-TEST and EVALUATION

Training Requirement:

“Hands-on practical sessions, equipment and software will be applied during the course if required and as per the client’s request”.



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Please note that the above topics can be amended as per client's learning needs and objectives. Further, it should be forwarded to us a month prior to the course dates.

Training Methodology:

This interactive training course includes the following training methodologies as a percentage of the total tuition hours:

- 30% Lectures, Concepts, Role Play
- 70% Workshops & Work Presentations, Techniques, Based on Case Studies & Practical Exercises, Software & General Discussions
- Pre and Post Test

Training Certificate(s):

Internationally recognized certificate(s) will be issued to each participant who completed the course.

Training Fees:

As per the course location - This rate includes participant's manual, hand-outs, buffet lunch, coffee/tea on arrival, morning & afternoon of each day.

Note: The 5% VAT (Value Added Tax), will be effective starting 01st of January 2018 as per the new regulation from the UAE Government. The VAT applies for all quotation both for local and abroad.

Training Timings:

Daily Timings:

07:45 - 08:00	Morning Coffee / Tea
08:00 - 10:00	First Session
10:00 - 10:20	Recess (Coffee/Tea/Snacks)
10:20 - 12:20	Second Session
12:20 - 13:30	Recess (Prayer Break & Lunch)
13:30 - 15:00	Last Session

For training registrations or in-house enquiries, please contact:

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Training & Career Development Department



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