

Advanced

© copyright

Professional Diploma

FAÇADE ENGINEERING

1st Professional Façade Engineering Program In MENA REGION

2021

What is Facade Engineering?

A facade is the front, or public-facing, side of a building. Facades are of critical importance for architects as well as civil and construction engineers, as they not only affect the public's perception of a building, they also set the tone for the rest of the building and play a key role in determining a building's energy efficiency.

Facade engineers ensure that facades are designed in an aesthetically-pleasing manner while incorporating energy, environmental and structural concerns.

How to Become Professional Façade Engineer?

www.infinityfacadeacademy.org

www.infinitysolutions.org

Introduction

“Façade Engineering is the Art of resolving Aesthetic, Environmental and Structural issues to achieve the enclosure of habitable space”.

Society of Façade Engineering

Glazing and façade systems have very large impacts on all aspects of any building performance. They directly influence peak heating and cooling loads, and indirectly influence lighting loads when day-lighting is considered. In addition to being a major determinant of annual energy use, they can have significant impacts on peak cooling system sizing, electric load shape, and peak electric demand. Because they are prominent architectural and design elements and because they influence occupant preference, satisfaction and comfort, the design optimization challenge is more complex than with many other building systems.

This Training provides an integral combination of the theoretical and practical knowledge basis for a complete and sound understanding of all disciplines attributing to the operational performance of façades. It examines the complex inter-relationships between those different aspects throughout a consideration of the existing constructions. Knowledge of materials, methods of manufacturing and installation are an essential element in the successful design of façades, and are given a conspicuous place in the Training which will be expanded through various factories and site visits.

It leads the Graduates to re-appraise basic physical concepts so that they may be imaginatively applied to the Engineering of building façades. Graduates are qualified to pursue careers in the design, management, manufacture or construction of facades and as specialists in architectural and engineering practices.

This Training will not only help prepare Graduates for an exciting career in the industry, but it will also help prepare Graduates to continue their future studies in the Façade Engineering.

In response to the above problems and to prevent skill shortage, **INFINITY** jointly with **MEG** consulting firm launches this Training in collaboration with the Egyptian Engineers Syndicate **EES**.

The Training is certified by **Nevada University** at the United States, certificate could be released against certain fees to be paid to the university..

Introduction

1- What of the Benefits of Professional Facade Engineering program?

- As we are living in a new era of rapid technological development and there are mega-projects under designing / construction. And as most of our client are either prestigious consultancy firms or technical office engineers and Under graduates and post graduates engineers working for manufacturing companies and Construction .

1-What is the benefit the development of science and technology in the absence of the Knowledge to use?

- Really there are no benefits in the absence of knowledge of how to use this technology or weakly apply it.
- **We all**
 - Need to those who can communicate with us effectively
 - Need to manufacturers, Fabricators and suppliers with high experience
 - Need to engineers with high efficiency with the ability to design and implement the project equal with the same concept and required form.
- **Really**, all Construction Industry need to a Professional Engineers, need to those who can understand knowledge.
- We know that all Companies are working very seriously to share the knowledge to them customers, but through the business way to deal with them for some projects and always for special clients and VIPS (by seminars, conferences) but; this way not for all target market and not for all Engineers.

All Projects has Very strong relation with all building material, that's mean your customer must have the knowhow for all other building materials to work professionally with all products an materials

Example: now most of the recent projects are keen about energy consumption and more toward sustainability (glass, aluminum, coating, stone .., etc.) And the knowledge of the application is so naive.

There are problems occur in some projects, not because of the efficiency of the product, but from operation errors.

Introduction

who can attend ?

This Program is designed for those who are working in facade engineering or those seeking new career opportunities in the construction or architecture industries. It is open to engineers, architects and suitably qualified candidates from other fields, including those engaged in the procurement, design, manufacture and assembly of building envelope systems, with a first degree or equivalent professional qualification.

Recommended Admission Qualifications

- An engineering degree;
- A relevant technical Training or certificate in Science, Engineering or other related disciplines, plus 2 years of relevant working experience.
- Students of Engineering Faculties (Architects , Civil and Mechanical)

- Architects and Designers
- Façade Consultants and Designers
- Building, Construction Consultants
- Primary and Secondary Contractors
- Developers
- Applicators and Fabricators.
- Project Developers and Managers
- Engineers and Technology Officers
- Material and Equipment Procurement Officers
- Building and Construction Industry Experts
- National, Regional and International Contractors
- Building and Property Managers
- Infrastructure Planners and Project Managers
- All Engineers working in the field of the façade construction and design.

JOB DESCRIPTION

- CEO and Owner
- Development Manager
- Project Manager
- Procurement Manager
- Specification Manager
- Technical Director
- Architect
- Civil Engineer
- Site Engineer
- Quantity Survey
- Quantity Control

Features

Training Features

Upon completing the program, participants will:

- Understand the key principles of the facade engineering field, such as the essential role of materials and manufacturing methods
- Have the skill, knowledge and understanding required to design, manufacture and construct building facades and cladding
- Grant the first Professional and Practical Training in Façade engineering in MENA REGION.
- Hand on experience as well as essential knowledge about Façade engineering.
- Visit prestigious project sites and factories to provide field experience on Façade engineering.

Training Structure

The Training is offered as a modular Training comprising 4 units in total each module takes two to three lectures and each lecture takes approximate three hours followed by open forum to discuss and clarify in detail any missing or related issues.

Training total duration is 92 hours / 8 weeks, 2 lecture / week and 1 Workshop / week Factory or Site visit.

The Training is composed of lectures, open forums, discussions, and Construction Sites & Factory visits. Students studying units for continuing professional development (CPD) can choose whether or not to be assessed. Assessment will be required for (CPD) students seeking a 'Certificate of attendance'. Individual units may be studied as part of an individual's Training of continuing professional development (CPD).

Medium of Instruction

Lectures will be conducted in Arabic supplemented with English terminology as appropriate. Course materials and assessment are in English.

Assessment

Attendees are required to have an overall pass in each course. The passing mark is 60%.

Award

A "Professional Training in Façade Engineering" will be issued by INFINITY Solutions and Training Certificate For Every workshop from every Factory

- We will nominate Some Of Graduated for Society of Facade Engineering "London" membership and fellowship



Exemption Policy

The maximum allowable exemption is 2 courses.

Objectives

Main Objective:

The main objective of the Training is to provide graduates with a broad understanding and knowledge of facade engineering. This is to ensure that they will have the skill, knowledge and understanding to design, manufacture and construct building facades and cladding. The Training is intended to broaden graduates from their original disciplines to have an understanding of all aspects of the building envelope.

Secondary Objectives:

Innovations and emerging issues

To develop and bring to market, innovative façade technologies, more efficient glazing, shading systems, day-lighting systems, and integrated controls with significant potential for increased energy efficiency in buildings beyond applicable standards.

To study wide variety of innovative façade technologies on the market or emerging into the market that could deliver potentially significant energy savings.

Structural engineering and integrity

To provide a sound structural engineering knowledge relevant to façade engineering.

To develop an understanding of how to enclose and seal buildings.

To introduce concepts of performance specification.

Building physics

To give a holistic view of the design of buildings.

To develop an understanding of comfort in buildings.

To provide a knowledge of the energy efficiency in buildings Materials and design.

To develop concepts of durability and life cycle costs.

To give knowledge of facade construction and manufacture and of façade materials.

Management

To specify the role of the different participants in the envelope design and construction.

To develop concepts of quality within the design and supply process.

To provide knowledge of the industry structure and culture.

Research methods

To give an understanding of information sources.

To develop an understanding of critical review.

To develop an ability to write scientific and technical reports.

Goals

Upon completion of the Training, graduates should gain the following:

Knowledge and understanding

Knowledge and understanding in the following areas:

Structural performance of facades and glass structures.

Sealing and integrity of facades.

Hygrometric and energy efficient facades.

Façade control systems.

Materials used in facades.

Manufacturing and construction methods.

Apply essential knowledge about the standards and codes of practice that are relevant to façade engineering;

Management, programming and legal aspects of façade contracting.

Intellectual Skills

Have equipped themselves to handle change and innovation and be able to evaluate and implement new technologies.

Have gained a variety of skills in analysis, engineering concepts and methods, decision making, risk assessment and problem solving.

Have gained an understanding of the many different roles involved in façade engineering and the interdisciplinary team working required.

Professional Practical Skills

Be able to successfully participate as a full member of the design-construct team for the largest and most complex building enclosures.

Have attained the skills and knowledge necessary to examine critically the prevailing technical and environmental issues of façade engineering construction industry.

Have an understanding of safety issues and the responsibilities of designers to the public.

Build up practical skills through site and factories visits.

Transferable/Key Skills

Have the necessary skills and vision to think, plan and act strategically.

Be able to synthesize and critically review information and to make effective decisions from the available information.

Demonstrate proper working attitude at supervisory level in the façade engineering industry.

Who Should Attend

Those who are working in façade engineering or those seeking career opportunities in this area.

The Training is open to engineers, architects and suitably qualified candidates from other fields, including those engaged in the procurement, design, manufacture and assembly of building envelope systems, with a first degree or equivalent professional qualification.

Previous Work

Previous Work:

We are honored to Participate this Training for the Employees of the following companies:

1. ECG
2. SIAC
3. SAINT-GOBAIN GLASS
4. ALUMIL ALUMINUM
5. DR. GREICH GLASS FACTORY
6. RAAFAT MILLER
7. MIMAR GROUP
8. AL-AMAR CONSULTANT GROUP
9. AFAK GROUP
10. TRAVCO GROUP
11. ALU NILE ALUMINUM
12. ALU TEC ALUMINUM
13. AFAQE CONSULTANCY
14. ALURAL EGYPT ALUMINUM
15. SMART GLASS FACTORY
16. AL-HAMD GLASS & ALUMINUM
17. ALU GRANTEE ALUMINUM
18. Quantum- GEZE
19. Okey Haiten
20. Entra sections
21. GSOOR FOR CONSTRUCTION
22. MOBICA
23. TEC MERGE
24. AMC
25. STM
26. DAR WAGHAT
27. Ehaf
28. AOUTO WIN – ALUMINUM
29. BLU SKY
30. GIRANITO
31. EGOTIC
32. DAR AGANCY
33. NEW EGYPT
34. MASR CONTRACT
35. ELKHALIG
36. Future Unversity
37. MODERN ACADEMY FOR ENGINEERING
38. El Obor Academy

Over Than 164 ATTENDEES

Our Previous Work

Training content

01 - Introduction to façade engineering

Aims:

To provide an introduction to façade engineering including the multi-functional nature of the building envelope and the need for holistic design.

Learning Outcomes:

Upon successful completion of the Unit the students should be able to:

Specify the performance of Façade s in terms of weather-tightness, structural integrity, environmental performance, quality and appearance.

Understand the role of different professionals in the design and construction process.

Skills:

Critical assessment of the different drivers of façade design, understanding of the design conflicts and ability to resolve these with other building professionals. Written and oral communications. These skills are facilitated and assessed.

Content:

The role of the façade engineer, function of the façade, drivers of design including build ability, appearance, weather-tightness and appearance. Role of specification and verification of performance, and design responsibilities & communication.

02 - Façade materials and components

Aims:

To provide an understanding of the through life performance of the many materials used in façade construction.

Learning Outcomes:

Upon successful completion of the Unit the students should be able to:

Understand the primary performance of the many façade materials and their performance when used together and incorporated in complex assemblies.

Evaluate, specify and verify the performance of materials.

Skills:

Selection of materials and design of appropriate assembly, mounting and other detailing.

Critical evaluation of through life performance in practice.

Content:

Overview of materials including: GFRC, stone, metal, CPC, ceramic, polymeric, timber and fabric.

Forming and assembly processes. Stone cladding treatments, finishes & installation details. Durability and processes of degradation

Training content

03 - Glass and glazing

Aims:

To provide an understanding of the performance of glass for appearance, performance, integrity, safety and environmental control.

Learning Outcomes:

Upon successful completion of the Unit the students should be able to:

Specify the performance of glass.

Critically evaluate the performance of glass and resolve design conflicts.

Skills:

Critical assessment of design objectives and achieved performance for glazed constructions.

Content:

Glazing materials, glass optical and thermal performance, glazing treatment, different glazing types, glass selection process, and fire resistance.

04 - Façade Production & Installation Process

Aims:

To provide an understanding of the principles and methods of façade shop drawing preparation.

Learning Outcomes:

Upon successful completion of the Unit the students should be able to:

Understand all the required process for the shop drawings preparation.

Awareness of the participant team from the shop drawing phase to the as built phase and the role of each member in each phase.

Skills:

Holistic review of façade detailing in a whole building context. Critical assessment of Façade shop drawing detailing. Written and oral communications. These skills are facilitated and assessed.

Content:

Design development process, value engineering studies, quotation preparation, design validation, shop drawing preparation, support systems and interface design, procurement process, installation and field testing, record for final design.

Training content

05 - Façade construction

Aims:

To provide an understanding of the principles and methods of façade construction.

Learning Outcomes:

Upon successful completion of the Unit the students should be able to:

Design and specify Façade s that meet the fundamental requirements of an envelope.

Evaluate through life performance of a façade.

Skills:

Holistic review of façade detailing in a whole building context. Critical assessment of Façade detailing.

Written and oral communications. These skills are facilitated and assessed.

Content:

Methods of façade construction, support systems and interface design, building and cladding movement, sealing building envelopes, fire performance, access, maintenance and refurbishment.

06 - Natural ventilation in buildings

Aims:

To develop a comprehensive knowledge of advanced principles and role of natural ventilation (NV) in buildings.

To develop a critical awareness of the architectural consequences of (NV) on building design.

To comprehensively explore the latest techniques, strategies and experiences of (NV) in buildings.

Learning Outcomes:

On successful completion of this module, students will have demonstrated the ability to:

Comprehensively understand advanced principles and practices of (NV).

Select and systematically employ appropriate and advanced NV strategies to different building types and complex contexts.

Creatively integrate these with other passive design strategies.

Critically evaluate the (NV) performance of design options.

Systematically diagnose the (NV) performance of existing buildings and recommend sound retrofit solutions if necessary.

Skills:

Independent research and clear communication of design information and analysis in writing.

Ability to apply advanced (NV) concepts in the design and detailing of buildings.

Ability to critically diagnose the (NV) performance of existing buildings.

Content:

Natural ventilation(NV) strategies, air quality and indoor climate, driving forces of (NV), application of (NV), building design for (NV), detail design for (NV), analysis/design tools, regulation requirements, control/management in use, evaluation/diagnostic tools & techniques, passive and active solutions, mixed mode - Integration of natural with mechanical ventilation, (NV) and Mixed Mode ventilation case studies.

Training content

07 - Daylight and shading

Aims:

To provide a comprehensive theoretical grounding that will enable students to tackle the range of lighting strategies likely to be encountered in practice in relation to the control of natural light through the building envelope.

Learning Outcomes:

Upon successful completion of the Unit students will have demonstrated:

Advanced knowledge of lighting theory and use of shading to reduce solar gain.

A comprehensive understanding of the quality of light within buildings.

The ability to independently assess and calculate the transmittance of shading devices and luminance derived from a conceptual understanding of the underlying theory.

Skills:

Appropriate analytical skills, interpreting diagrammatic information, communication skills.

These skills are taught, facilitated and assessed.

Content:

Understanding daylight: benefits, challenges, different types, factors influencing availability.

Defining daylight management: practice, shade positioning, benefits, design goals, and energy saving. Natural light as a working illuminant, role of shading to reduce solar gain, design of windows and advanced glazing.

08 - Weather-tightness

Aims:

To provide an understanding of the principles, design and testing of the sealing of building envelopes.

Learning Outcomes:

Upon successful completion of the Unit the students should be able to:

Specify weather-tightness criteria and appropriate testing.

Design joints and seals.

Analyze the movement of moisture within walls.

Skills:

Critical assessment of the different methods of sealing building envelopes.

Ability to conduct tests for the assessment of constructed walls.

Content:

Air, water and wind environment, Gaskets, joints and interface design, weather-tightness testing, moisture movement in walls.

Training content

09 - Thermal performance of Façade s

Aims:

To provide a comprehensive understanding of how the different elements of a façade work separately and when combined as a whole building envelope to control energy flows in to and out of a building.

Learning Outcomes:

On successful completion of this unit students will have demonstrated the ability to:
Systematically evaluate the thermal performance of façade elements and building envelopes.
Comprehensive understanding of the underlying principles behind innovative materials and components.

Skills:

Systematic investigation and evaluation of new materials/technologies, analytical skills for the assessment of whole building thermal performance.

Content:

Principles of heat flow through complex structures, evaluation of element performance, new materials and technologies, drivers for improved performance, regulations and rating schemes, condensation risk analysis and vapor control.

10 – Green Buildings

Aims:

To provide comprehensive knowledge about green building techniques and sustainable envelope designs.

Learning Outcomes:

Upon successful completion of the Unit the students should be able to:

Analyze built environment impacts and Sustainable design .

Interpret the thermal performance of façades.

Gain diverse knowledge on the part of contractors and subcontractors, especially on green-building features.

Exposure to wide range of new and emerging technologies, evaluation /certification programs, and even material selection criteria.

Skills:

To adapt continually to new technologies and systems

Content:

Introduction to built environment impacts and Sustainable design guide lines, rating systems and effect of efficient façades on related credits, technical treatments of façades and case study, & thermal performance of different forms of construction.

Training content

11 - Acoustics and Fire

Aims:

To provide a theoretical grounding that will enable students to strengthen the link between theory and design of acoustics and fire in buildings.

Learning Outcomes:

Upon successful completion of the Unit the students should be able to:

Demonstrate an understanding of the analytical methods and practical techniques for the acoustic design of buildings and external noise environment.

Demonstrate a knowledge of the fire performance of buildings and the role of façade design in achieving fire safety in and around buildings

Skills:

- Ability to analyze and modify the internal acoustic environment (taught, facilitated and assessed).
- Ability to select appropriate design strategies and components to produce Façades that do not impair fire safety in buildings.

Content:

Room acoustics: introduction to the decibel, sound propagation, sound in rooms, absorption, reverberation time and room acoustic design. External noise environment. Noise control: sound insulation by partitions, cavity constructions in masonry, glass and light-weight materials, acoustics properties of building envelopes, practical solutions and current legislation. Principles of fire engineering. Fire resistant construction. Reaction of Façades to fire.

12 - Structural analysis and integrity of façades

Aims:

To provide an understanding of the principles of structural engineering applicable to façade engineering and the structural performance of façades.

Learning Outcomes:

Upon successful completion of the Unit the students should be able to:

Analyze Structural loads “ horizontal & vertical”

Design procedure

Cladding design and design loading systems

Understand the structural design criteria for façades.

Check building capabilities of transferred loads

Construction Quality control process “ lab tests & field tests”

Skills:

Analysis and appraisal of the structural performance of complex Façades.

Presentation of complex results.

Analysis of façade structures.

Evaluation of structural performance.

Content:

Structural loads “ horizontal & vertical” , design procedure, design loading system, check building capabilities of transferred load, quality control process “ lab \ field tests, , role of structural analysis, structural materials, structural systems composite sections, structural design criteria, and applied & induced loads.

Training content

13 - Thermal analysis of façades

Aims:

To provide an ability to analyze and evaluate the thermal performance of façades.

Learning Outcomes:

Upon successful completion of the Unit the students should be able to:

Analyze energy transfer through complex façades.

Interpret the thermal performance of façades.

Skills:

Analysis and appraisal of the hydrothermal performance of complex Façade s.

Presentation of complex results.

Content:

Heat transfer through complex assemblies and cavities, thermal performance of different forms of construction, performance of walls in warm and humid climates, interpretation of results.

14 - Façade procurement

Aims:

To provide an understanding of the procurement of façades in terms of supply chain, specification, risk management and value engineering.

Learning Outcomes:

Upon successful completion of the Unit the students should be able to:

Evaluate the robustness of different design and procurement processes.

Communicate the design, performance and construction requirements for a façade.

Skills:

Critical assessment of the effect of different procurement routes. Communication of design intent and project objectives.

Content:

The cladding industry, procurement methods, supply chain management, value engineering, quality management.

Instructors

Director of Attendees

Partner, General Technical Coordinator, & prime lecturer
Consultant Architect: **ADEL ANWAR EID**

and is responsible for all technical issues and organizational aspects of the Training. He is assisted by Infinity solutions for remaining administration related issues. The Director of Studies is also personal tutor to all students on the Training.

Students are encouraged to use Infinity solutions for administration problems with the Training. All other inquiries and problems should be raised with the Director of Studies.



Partner Of Success

Organizer
Infinity for Façade Contracting



Façade Consultant
Dr. Adel Anwar



Our Partner of Success



Participants



Guests of honor & Site / Factory Visits



1- Why this group of large factories and companies contributed to this program?

- we are Highlight our Responsibility toward the Community, **Especially in Engineering and construction industry as a whole**
- we all Doing together to help all engineers to develop themselves.

we are offering:

- The exposure and the link between your company and these prestigious consultancy firms and manufacturing facilities.
- Enrich your communication opportunities with local market.
- Offering contacts with manufacturers, Fabricators and suppliers with high experience
- Help them to know the latest technology and use it in Façade Engineering.

Really, we are working very seriously for more sharing of this knowledge.



FAÇADE ENGINEERING

Toward the Sustainability of Façades & Buildings.

Professional Course in



FAÇADE ENGINEERING

Toward the Sustainability of Façades & Buildings.

Introduction about Façade Engineering Instructor :

Kindly allow me to introduce myself, My name is Adel Anwar Eid. I received my consultancy certificate on 2002, my Master of Business Administration (**MBA**) on 2014, and my Doctoral of Business Administration (**DBA**) on 2016. Working in the management, designing, and construction for over thirty years in multinational firms occupying different managerial positions.



Currently working in the position of Chairman for “Modern Engineering Group” **MEG** consultancy firm specialized in façade consultancy and a chief executive officer & Engineering and Science services “E.S.S.” instructor for the Façade Engineering Diploma in the American University in Cairo “AUC”.

My extensive experience in façade engineering was gained through working with international companies in various positions involving facade construction and design processes; introducing new strategies and planning systems that would lead to a decrease in project delivery durations; working in projects designed by prestigious consultants such as **ZAHA HADID, NORMAN FOSTER, MICHEL GRAVE, NIKKEN SEKKEI, HOK, ATKINS, WATG, & WZMH** and with prestigious façade consultants such as **RAMBOLL, ARUP, MEINHARDT, HEITMANN & ASSOCIATES, ROBERT NANSTEEL, WHITBY & BIRD, WINTECH, & ETIENNE WATELET** during the last thirty years. All these projects were designed according to international codes & standards, including, hotels, airports, office buildings, residential compounds, palaces, and educational buildings.

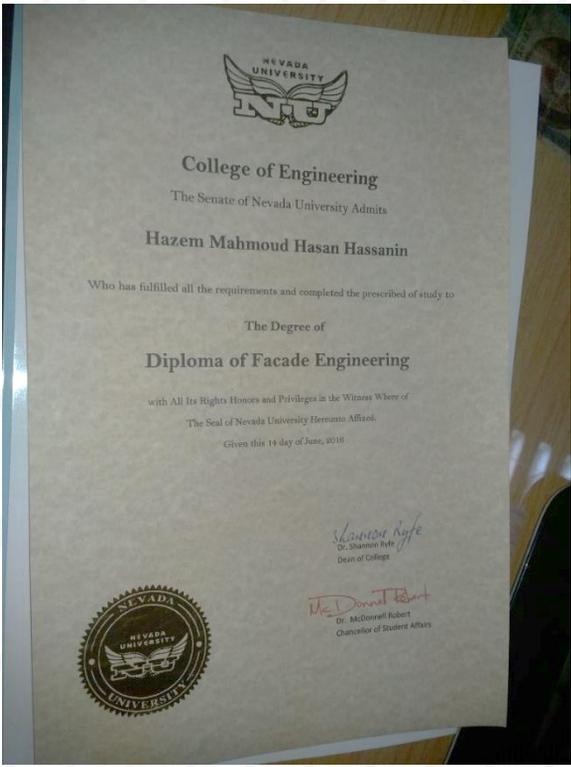
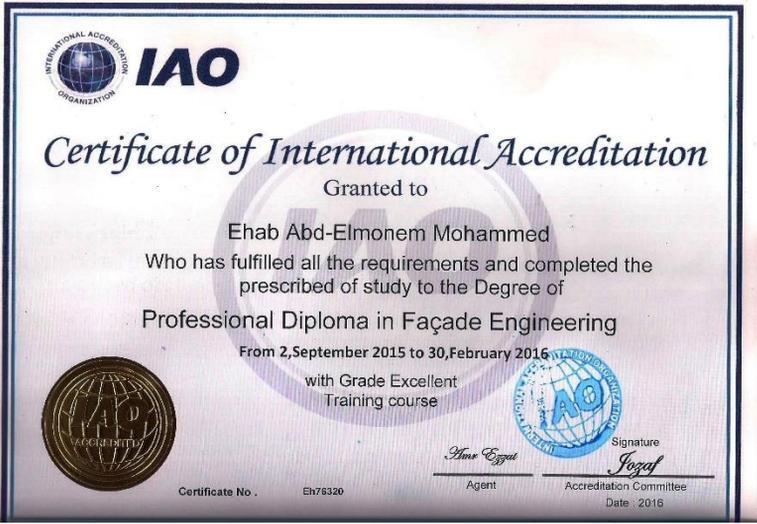
Contributes by publishing several technical articles in international engineering magazines. Hold, manage, and speaker for several international conferences. Partner, general technical coordinator & prime lecturer for the first façade diploma in the MENA region certified by repetitive American Universities.



FAÇADE ENGINEERING

Page 1 of 1

Toward the Sustainability of Façades & Buildings.



Please Review Our Financial Proposal and Training Description.

Training duration is 92 hours / 23 lectures Including Workshops Site/ Factory Visits.

No of Engineers		Fees
Individual	SOIC INFINITY FACTORY NEW CAIRO	4000 L.E /1
Companies Groups		Discount 10%
Students Workshops		1000 L.E

Price include:

- 1- material by e-mail pdf
- 2- Final Exam
- 3- Certificate from our Company by Façade Engineering Program
- 4- Training Certificate For Every workshop from every Factory

- **The requirements for the registration :**

- Copy of ID
- Qualification
- Copy of Egyptian Engineers Syndicate ID if Available

- **Start when completion the number of attendees from 25 to 30,**

- **Payment:**

minimum deposit for everyone to registration is 30 % (Registration is available from now until the completion of the attendees number)

The rest of total amount should be paid **before** starting at least 1 Week .

- **Payment Methods:**

- 1- cash
- 2- bank transfer (Alexandria bank)
- 3- Vodafone Cash

TRAINING SCHEDULE PLANNER 2021

PROGRAMME FAÇADE ENGINEERING SPECIALIST
 ORGANIZER SOIC INFINITY S.A.E + MEG

Professional Course in
FAÇADE ENGINEERING
 Toward the Sustainability of Façades & Buildings.

COURSE PHASE	STARTING	ENDING	[Syllabus]	Work Shops
ROUND 1	29/05/2021	19/07/2021	1- Introduction to Façade Engineering 2- Façade Materials and Components	1- Aluminum, Glass
ROUND 2	06/06/2021	27/07/2021	3- Glass and Glazing 4- Daylight and Shading	2- Upvc
ROUND 3	01/08/2021	21/09/2021	5- Weather-Tightness 6- Thermal Performance of Façade	3- Glass, Polye Carbonate
ROUND 4	07/08/2021	27/09/2021	7- Green Buildings 8- Natural Ventilation in Buildings	4- Rolling Shutter
ROUND 5	02/10/2021	22/11/2021	9- Acoustics 10- Fire	5- Plastering
ROUND 6	03/10/2021	23/11/2021	11- Thermal Analysis of Façades 12- Façade Procurement	6- Stone
			13- Façade Production & Installation Process 14- Façade Construction	7- Coating
			15- Structural Analysis and Integrity of Façades 16- Exam	8- SITE VISIT

Total lectures is 23 3 day per week / 8 Weeks

16 Lecture, 2 lectures per week (Saturday and Monday)
 + 7 workshops, 1 per week on Wednesday

16 Lecture, 2 lectures per week (Sunday and Tuesday)
 + 7 workshops, 1 per week on Thursday

Total Hrs. is 124.

JANUARY							FEBRUARY							MARCH							APRIL							MAY							JUNE									
S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S	S	M	T	W	Th	F	S			
				1	2		1	2	3	4	5	6		1	2	3	4	5	6						1	2	3								1					1	2	3	4	5
3	4	5	6	7	8	9	7	8	9	10	11	12	13	7	8	9	10	11	12	13	4	5	6	7	8	9	10	2	3	4	5	6	7	8	6	7	8	9	10	11	12			
10	11	12	13	14	15	16	14	15	16	17	18	19	20	14	15	16	17	18	19	20	11	12	13	14	15	16	17	9	10	11	12	13	14	15	13	14	15	16	17	18	19			
17	18	19	20	21	22	23	21	22	23	24	25	26	27	21	22	23	24	25	26	27	18	19	20	21	22	23	24	16	17	18	19	20	21	22	20	21	22	23	24	25	26			
24	25	26	27	28	29	30	28						28	29	30	31				25	26	27	28	29	30	23	24	25	26	27	28	29	27	28	29	30								
31																			30	31						30	31																	

Holiday workshop end of round

Professional **Course** in

 **FAÇADE** ENGINEERING

Toward the Sustainability of Façades & Buildings.

For Registrations

training@infinitysolutions.org

+2 25729991 / +2 25729992

011111 999 77 / 011111 888 22

www.infinityfacadeacademy.org

www.infinitysolutions.org



FacadeAcademy.eg