

Presented by:

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Introduction



ECG Lean Practice



Academic Participatior



University To work Program



ECG University Students Training Program In Qatar



ABOUT ECG

- Founded in 1969
- Architecture & Engineering Multi-Disciplinary Firm
- Over 3,000 permanent staff
- 12 Branches covering 37 countries over 4 continents
- More than 2500 projects of total construction value exceeding USD 150 billion
- Ranked # 90 International Engineering Consultancy Firms (ENR - 2019)
- In Qatar since 2002
- 400 multidisciplinary permanent staff
- Accomplished over 250 Projects



Development



SECTORS

Buildings

Banks Education Government Healthcare High-rise towers Hotels Labs

Office and commercial buildings

Residential Resorts and leisure

Retail

Service areas and workshops Sports clubs

Oil & Gas and Power **Industrial**

Cement Fertilizers Gas separation Manufacturing Oil blending

Petrochemicals

Power generation Substations

Transmission and distribution

Transport

Aviation Ports and harbors

Roads and highways

Utilities

Desalination District cooling Irrigation

Wastewater pumping stations Wastewater networks Water pumping stations

Water networks Water and wastewater treatment Mixed-use developments Urban planning

Urban













PROJECTS

































ECG LEAN IMPLEMENTATION

ECG believes that the future of the construction industry can be transformed by integrating three main practices aligned together;

- 1. Lean Practice
- 2. Sustainability
- 3. Data Management and BIM Practice

ECG is pleased to support LCI-Q as a part of its wide participation in the development of the state of Qatar.

Aiming at:

- Sharing our Lean experience
- Adding more value to our Projects and the construction industry







BIM Lean SUSTAINABILITY

Vision & Mission

Qatar 2030 Vision



ECG LEAN IMPLEMENTATION

- Started in 2014 Head offices
- Aiming at:
 - Increasing efficiency
 - Eliminating wastes
 - Creating better working environment
 - Continuous improvement
- By:
 - Developing Human resources (awareness, training and development)
 - Encouraging innovative practices
 - > Supporting research and development
 - Providing professional experience to undergraduate students and young professionals





ECG PARTICIPATION AT THE ACADEMIC SECTOR



ECG Initiative 2009-2019

University to Work

initiative aims to bridge the gap between academic education and the market needs in the field of engineering. It is based on providing a group of selected students with technical skills that helps them acquire the skills required by the labor market.





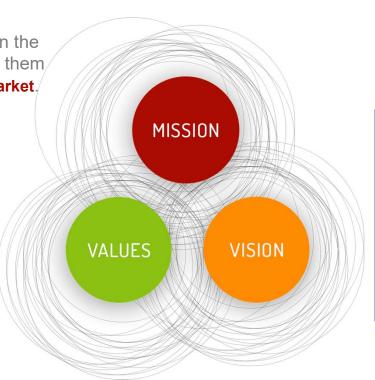
Mission

Training senior students in the necessary skills enabling them

to compete in the labor market.

Values

The university To Work initiative helps engineering students to promote and practice values of professionalism, excellence, trust and passion.



Vision

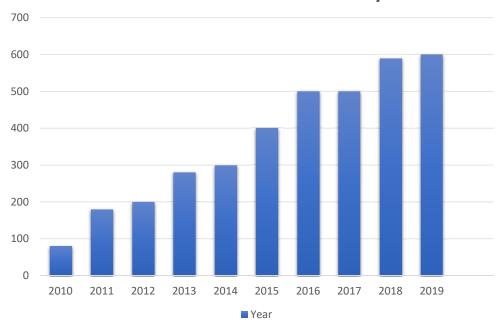
The initiative aims to produce world class skilled students among Egyptian universities and qualify them by developing their technical and professional skills, as well as molding their characters to comply with the market needs.



Initiative Development

- Initiated in 2009
- Collaboration between:
 ECG, Universities, and Sponsors
- MOUs were signed between parties starting from 2010 till date
- 11 Rounds were repeated with a higher number of students every year.

Number of Trained Students Every Year



Why Students join UTW?

- Developing their interpersonal and leadership skills
- Getting exposed to real life situations
- Widening their social network by making new friends with students from different universities
- Turning all their theoretical studies into practical projects
- Being trained on using the up to date software programs to prepare them for labor market
- ECG helps them in starting their career life through job fairs
- Direct hiring of best performing students





The program is divided into four phases;

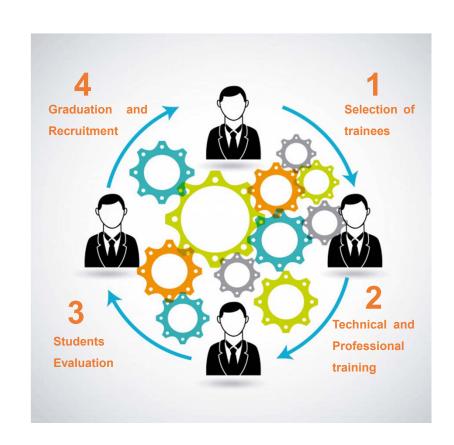
Phase 1: Selection of trainees

Phase 2: Technical and professional training

Phase 3: Students Evaluation

Phase 4: Graduation - Recruitment

Recognition and awards to the best performing students and universities.



UTW Program

The Program consists of five key components: (250 hours of training)

- 1. Technical Training
- 2. Interdisciplinary Coordination Training Real Project
- 3. Soft Skills
- 4. Construction Sites Training
- Participation in Community development (Corporate Social Responsibility - CSR)





Project

30+ Hours

















Software Sessions 30+ Hours



Soft Skills Sessions 30+ Hours

1- Technical Training:

- · 100 hours of technical training
- Latest Computer Design software
- Real Projects
- Different Project Stages
- Applying QA/QC

Introductory Sessions:

- Sustainability
- BIM
- Lean Practice

























2- Interdisciplinary Coordination Training:

- 30 hours
- Multidisciplinary Real Projects
- All departments participation











3- Soft Skills:

- 100 hours
- Time Management
- Leadership
- Communication Skills
- Technical Report writing
- CV writing, Personal Interview skills









4- Construction Sites Training

- 50 100 hours
- Introduction sessions
- Construction methods
- Time scheduling
- Shop Drawings
- Technical work inspections
- Safety rules
- QA/QC practices



5- Participation in Community development (Corporate Social Responsibility - CSR)

- Volunteering CSR hours
- Supporting community development



Graduation Ceremony of different UTW Rounds



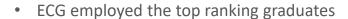






10 Years Celebration of UTW













UTW 4th Job Fair

- 30 + companies & Factories
- 1000+ job opportunities





Excellence in Engineering Days- Forums

A UTW Excellence in Engineering Forum and Exhibition is organized every year with local and international speakers who address topic of renewable energy, solid waste management, Green building and LEED...etc.,















UTW & Foreign Universities: Cyprus – Greece- Switzerland

- Menapolis University-Pafos
- Swiss School of Management







Recognitions



- IAD (International Association of Designers)
- EBA (Egyptian Businessmen's Association)
- IAA (International Association of Architects)





ECG - Training Program in Qatar

- ECG has been organizing summer training for **Qatar University** students for **4 years in a row now**.
- The Program included students from other Universities including TEXAS A&M in Qatar, McGill University (Canada), and the University of Manchester (UK).
- The program includes:
 - Technical Training
 - Interdisciplinary Coordination Training
 - Construction Sites Training
- The training program has been a huge success according to students' feedback.
- The total number of trained students is 82 students from all universities till 2019 including 66 students from Qatar University.







Qatar University Employer Recognition Award

 ECG received Qatar University prestigious Employer Recognition Award in appreciation of the company's contribution in the summer training Program of the university students.

Qatar University trained students

Year	Number of Students
2016	22
2017	20
2018	9
2019	15







Way Forward

- Developing the current university students training program in Qatar to:
 - Include the main aspects of the university to work program.
 - Tailor the program to suit the Qatari culture and local engineering market
 - Engage professionals from different companies to be part of the program.
 - Include other universities and disciplines in the training program.
- ➤ Encourage Universities to engage industry professionals to participate on technical discussions and evaluation of students projects and activities.



Thank you

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