

## Dr. WALID ABDELGHAFAR

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**Date of Birth:** 25<sup>th</sup> April 1973

**Nationality:** Egyptian

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[wabdelghaffar@hotmail.com](mailto:wabdelghaffar@hotmail.com)

**Marital Status** Married

### ACADEMIC QUALIFICATIONS

2006-present **Assistant Professor of Automotive Engineering, Internal Combustion Engines, Renewable Energy, Thermo-science, Gas Turbines, Gas Dynamics, Faculty of Engineering, Alexandria University, Egypt.**

2005 – 2006 **Research Fellow, University of Brighton, Brighton, UK** I was involved in 2 projects:

1- “*2S/4 sight (2S/4S conversion Gasoline Engine)*”. This has been done by collaboration with University of Brighton (UK), Brunel University (UK), DTI (Innovation and Technology Automotive Unit)(UK), Denso sales UK Ltd, Ma 2T4 Innovation Ltd (UK), Ford Motor Company Ltd and Ricardo UK Ltd.

2- “*GREen Heavy Duty ENgine (GREEN)*” This has been done by collaboration with VOLVO (Sweden and France), Deutz (Germany) Ricardo (Great Britain), Delphi Diesel System (Great Britain), Johnson Matthey (Great Britain and Sweden), Advanced Combustion GmbH (SME) (Germany), CMT-UPV (Spain) and Chalmers (Sweden).

2002 – 2005 **PhD, University of Brighton, Brighton, UK.** “*Modelling of fuel droplet heating in Diesel Engines*”.

1998-2001 **M. Sc., Faculty of Engineering, Alexandria University, Alexandria, EGYPT.** “*Effects of coolant temperature on performance and emissions of diesel engine*”.

1991-96 **B. Sc., Faculty of Engineering, Alexandria University, Alexandria, EGYPT.** in Mechanical Engineering. The grade for the final year and final year project was distinction (90.1 % and 100 %, respectively).

### TEACHING EXPERIENCE

- *Mechanical Engineering Department, Faculty of Engineering, Alexandria University, EGYPT (full time 2006-now)*

Automotive Engineering

Internal Combustion Engines

Internal combustion engines labs

Novel propulsion systems

Gas dynamics

Environmental Science

Thermodynamics

Technical writing

Automatic Fire Fighting and Alarm System (Final year Project)

Medical gas design systems (Final year Project)

- Arab Academy for Science and Technology & Maritime Transport, Alexandria, Egypt( part time 2006-now)

Diesel engine Design

Internal Combustion engines

Automotive Engineering

Automatic Fire Fighting and Alarm System (Final year Project)

- School of Engineering, Faculty of Science and Engineering, University of Brighton, Brighton, UK (full time 2003-2006)

Engineering Mechanics

CNC programming using Pro Engineer Computer Aided Manufacture Package

Pro-Engineering (Wildfire)

AutoCAD

Experimental Methods (Mechatronics, Thermodynamics, heat transfer, aerodynamics and refrigeration)

Core science

- Alexandria Higher Institute of Engineering & Technology (AIET) Alexandria, Egypt( part time 2006-now)

Automatic Fire Fighting and Alarm System (Final year Project)

Car control unit designing and manufactured for ford car (Final year Project)

#### **ACADEMIC WORK EXPERIENCE**

2006-present **Assistant Professor, Mechanical Engineering Department, Faculty of Engineering, Alexandria University, Alexandria, Egypt (full time).**

2006-present **Assistant Professor, Arab Academy for Science and Technology & Maritime Transport, Alexandria, Egypt (Part time)**

2006-present **Assistant Professor, Alexandria Higher Institute of Engineering & Technology (AIET), Alexandria, Egypt (Part time)**

2005-2006 **Assistant Professor, School of Engineering, Faculty of Science and Engineering, University of Brighton, Brighton, UK (full time).**

2002-2005 **Lab Demonstrator, School of Engineering, Faculty of Science and Engineering, University of Brighton, Brighton, UK.**

2001-2002 **Assistant Teacher, Internal Combustion Engines Branch, Mechanical Engineering Department. Faculty of Engineering, Alexandria University, Alexandria, EGYPT.**

1998-2001 **Demonstrator, Internal Combustion Engines Branch, Mechanical Engineering Department. Faculty of Engineering, Alexandria University, Alexandria, EGYPT.**

1997-1998 **Military service, EGYPT**  
A leader of the vehicle branch in a unit of the Egyptian Military.

## RESEARCH AREA

Diesel fuel droplets heating and evaporation  
Combustion  
Soot formation  
Fuel penetration  
Fuel spray  
Bio-fuel  
Bio-diesel  
Natural gas engine  
Hydrogen Engine  
Diesel engine  
Spark ignition engine (SI)  
Homogenous Charge Compression Ignition Engines (HCCI)  
Gasoline Direct Injection (GDI)

## PUBLICATIONS

1. **Abdelghaffar W A** (2010) NO<sub>x</sub> formation inside HCCI Engines, American Journal of Scientific and Industrial Research, Vol 1, No 1, September (*accepted*).
2. **Abdelghaffar W A** (2010) Spark Ignition Engine Fueled by Hydrogen: Comparative Analysis, European Journal of scientific research (EJSR), Vol 44, No 1. pp 13-28.
3. **W A Abdelghaffar**, A E Elwardany, S S Sazhin (2010) Modelling of the processes in Diesel engine-like conditions, FUEL, (*accepted*)
4. Nour, A M, Mrzouk, E M, Abelrahman, A , **Abdelghaffar, W A** (2009) The Effect of Carbon Dioxide in Non-Air Inlet Mixture on Combustion Performance in Diesel Engine, International Review of Mechanical Engineering (I.R.E.M.E.) Vol. 3. No 6, pp. 788-795.
5. **Abdelghaffar, W A**, (2008) The Hydrogen-Fueled SI Engine: comparative Analysis, *Faculty of Engineering Journal, Alexandria, Egypt*
6. Sazhin, S.S., **Abdelghaffar, W.A.**, Krutitskii, P.A., Sazhina, E.M. and Heikal, M.R. (2008) Numerical modeling of droplet transient heating and evaporation, Heat Transfer Research , **39**, No. 1, pp. 51-64.
7. Mohammed El-Kasaby, Shafik M.El-Bahnasy, Aly Moussa, **Abdelghaffar, W A** , Medhat A. Nemit-allah (2008) methyl-ester bio-fuel characteristics as a substitute renewable I.C.E. fuel -1-fuel preparation and performance tests of waste vegetable oil as bio-diesel. Alexandria Engineering Journal September 2008
8. **Abdelghaffar, W A**, (2007) Evaluation of the Effect of nitric oxides formation inside spark assisted HCCI engine using multi-zones model, *Faculty of Engineering Journal, Alexandria, Egypt*
9. **Abdelghaffar, W A**, Elwardany, A E, El-kassaby, M M (2007) Thermal radiation absorption in fuel droplets, *Faculty of Engineering Journal, Alexandria, Egypt*
10. **Abdelghaffar, W A**, Elwardany, A E, El-kassaby, M M (2007) Thermal radiation absorption in fuel droplets, *The Fifth International Symposium On Radiative Transfer 17 - 22 June 2007 Bodrum, TURKEY (Poster)*
11. **Abdelghaffar, W A**, Karimi, K and Heikal, M R (2007) Fuel spray penetration in high pressure Diesel Engines, *SAE conference on Fuels and Emissions, BMW Pavilion, Cape Town, South Africa, 23-35 January.*

12. Sazhin, S S, Kkrityadi, T, Heikal, M R , **Abdelghaffar, W A** and Shishkova, I N (2007) Fuel droplet heating and evaporation: analysis of liquid and gas phase models, *SAE conference on Fuels and Emissions, BMW Pavilion, Cape Town, South Africa*, 23-35 January.
13. Sazhin, S S, Kristyadi, T, **Abdelghaffar, W A**, Begg, S, Heikal, M R (2007) Approximate analysis of thermal radiation absorption in fuel droplets, *Journal of Heat Transfer* , ASME, **129**, pp. 1246-1255.
14. Sazhin, S S, Kristyadi, T, **Abdelghaffar, W A**, and Heikal, M R (2006) Models for fuel droplet heating and evaporation-comparative analysis, *Fuel*, **85**, pp. 1613-1630.
15. **Abdelghaffar, W A** (2005) Modelling of fuel droplet heating in diesel engines. PhD thesis, *School of Science and Engineering, University of Brighton, UK*.
16. **Abdelghaffar, W A**, Sazhin, S S, Sazhina, E M and Heikal, M R (2005) Models for droplet transient heating: a comparative analysis. *4<sup>th</sup> International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics*, Cairo, Egypt, 18-22 September.
17. Sazhin, S S, **Abdelghaffar, W A**, Krutitskii, P A, Sazhina, E M and Heikal, M R (2005) New approaches to numerical modelling of droplet transient heating and evaporation. *International Journal of Heat and Mass Transfer*, **48**, pp.4215-4228.
18. Sazhin, S S, **Abdelghaffar, W A**, Sazhina, E M and Heikal, M R (2005) A new model for droplet transient heating: effects on droplet evaporation, ignition, and break up. *International of Thermal Science*, **44**, pp.610-622.
19. **Abdelghaffar, W A**, Sazhin, S S, Sazhina, E M and Heikal, M R (2005) Advanced gas-droplets heat transfer models and their applications. *International Symposium on Heat and Mass Transfer in Spray Systems*, Antalya, Turkey, 5-10 June 2005.
20. Sazhin, S S, **Abdelghaffar, W A**, Martynov, S B, Sazhina, E M, Heikal, M R and Krutitskii, P A (2005) Transient heating and evaporation of fuel droplets: recent results and unsolved problems. *5<sup>th</sup> International Symposium on Multiphase Flow, Heat Mass Transfer and Energy Conversion*, Xi'an, China, 3-6 July.
21. Sazhin, S S, Krutitskii, P A, **Abdelghaffar, W A**, Sazhina, E M and Heikal, M R (2004) Transient heating of droplets. *3<sup>rd</sup> International Symposium on Two-Phase Flow Modelling and Experimentation*, Pisa, Italy, 22-24 September.
22. Sazhin, S S, **Abdelghaffar, W A**, Krutitskii, P A, Sazhina, E M and Heikal, M R (2004) Numerical modelling of droplet transient heating and evaporation. *5<sup>th</sup> Minsk International Heat and Mass Transfer Forum*, Minsk, Belarus, 24-28 May.
23. **Abdelghaffar, W A** (2004) Numerical modelling of heating and evaporation of diesel fuel droplets. *Engineering Research in Action Coference*, University of Brighton, Brighton, UK, 6 May.
24. Sazhin, S S, **Abdelghaffar, W A**, Sazhina, E M, Mikhalovsky, S V, Meikle, S T and Bai, C (2003) Radiative heating of semi-transparent diesel fuel droplets. *ASME Journal of Heat Transfer*, **126**, pp.105-109. Erratum (2004), **126**, pp.490-491.
25. Sazhin, S S, Krutitskii, P A, **Abdelghaffar, W A**, Mikhalovsky, S V, Meikle, S and Heikal, M R (2003) Transient heating of diesel fuel droplets. *International Journal of Heat and Mass Transfer*, **47**, pp.3327-3340.
26. **Abdelghaffar, W A** (2003) Advanced gas-droplets heat transfer models and their Application to Numerical Simulation of Combustion Processes in Internal combustion engines. *Mpill/PhD Transfer Report*, University of Brighton, UK.
27. **Abdelghaffar, W A**, Osman, M O, Saeed, M N, Abdelfattah, A I (2002) Effects of coolant temperature on the performance and emissions of a diesel engine. *ASME, ICE-Vol. 38*, 2002 ICE Spring Technical Conference.
28. **Abdelghaffar, W A**, (2002) Effects of coolant temperature on the performance and emissions of a diesel engine. *M.Sc. thesis*, Faculty of Engineering, Alexandria University, EGYPT.

### CONFERENCES

- Nature Inspired Innovations Towards a Sustainable Environment. 6<sup>th</sup> International conference on Role of Engineering Towards a Better Environment (RETBE'06), Alexandria, Egypt, December 16-18, 2006.
- Work-shops for supervision, University of Brighton, Brighton, UK, 18-20 December 2005.
- 4<sup>th</sup> International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics, Cairo, Egypt, 18-22 September.
- International Symposium on Heat and Mass Transfer in Spray systems, Antalya, Turkey, 5 – 10 June 2005.
- Droplets and Sprays: fundamental problems and engineering applications Conference, University of Brighton, Brighton, UK, 2 September, 2004.
- Learning and Teaching Conference, University of Brighton, Brighton, UK, 16 July, 2004.
- Engineering Research in Action Conference, University of Brighton, Brighton, UK, 6 May 2004.
- UNICEG Conference, University of Brighton, Brighton, UK, 16 September 2003.
- Engineering Research in Action Conference, University of Brighton, Brighton, UK, 1 April 2003.

### SUPERVISIONS

- 2 PhD, Faculty of Engineering, Alexandria University, Egypt (1 finished).
- 1 PhD, Arab Academy for Science and Technology, Alexandria, Egypt.
- 5 M.Sc., Faculty of Engineering, Alexandria University, Egypt (1 finished).
- 12 B.Sc. final year projects

### PROFESSIONAL QUALIFICATIONS

- Member of the Egyptian Engineers Syndicate.
- Member of SAE, USA
- Member of Alexandria University Staff, Alexandria, EGYPT.
- Member of University of Brighton Supervisory team
- Member of University of Brighton Internal Combustion Engines Research Group.

### BUSINESS EXPERIENCE

- **Chairman** of MechaWorks company for garage equipments (Selling, Maintenance-Designing and Upgrade of car service centres and car factories)
- **Consultant** of Alexandria university Hospitals for Mechanical work
- **Consultant** of many Car Service Centres (Egyauto, Amk, Elhosary, Toyota Gesr Elsuis, JAC, JEELY, ESSA,
- **Consultant** of many industrial companies
- **Consultant** of Fire Fighting and Safety

### CONSULTATION EXPERIENCE

- Pumps station
- Car service centres design
- Medical gases
- Automatic fire fighting system
- Sprinklers system

- Automatic Alarm system
- Swimming pools design
- A/C systems
- Air systems
- Medical devices
- Vehicle production lines
- Waste water treatment pumping systems
- Ventilation systems
- Natural gas systems for factories and industrial area

Achievements is attached

#### **TRAINING EXPERIENCE**

- Automotive Engineering
- |Automatic and manual Fire fighting systems
- Automatic Alarm system
- Gas turbines
- Compressors
- Pumps
- Industrial safety
- Risk Assessment
- Maintenance planning and implementations (preventive maintenance, predictive maintenance, TPM, RCM, CMMS)

Achievements is attached

#### **SKILLS**

**Computing:** FORTRAN, Unix, Linux. Technical packages include Pro-Engineering, AutoCAD, Tecplot, Rplot, VECTIS CFD code and KIVA CFD code, FLUENT CFD code and ISIS code.

**Languages:** Excellent communication skills in both English and Arabic languages.

**Research:** Excellent experience with CFD codes (KIVAII-KIVA3V REL2, VECTIS, FLUENT). Good experience with PIV and PDA techniques.

**Personal:** A keen, hard working and well presented engineer, with experience of both industrial and research environments. Research conducted shows a capacity to deal with novel problems and find an effective solution for them, with understanding of the implications of the solution formed. Excellent experience in engines diagnosis. Strong knowledge of automotive systems, Maintenance techniques, safety, automatic fire fighting and alarm system, thermodynamics and heat transfer theories.

#### **INTERESTS**

**University:** Member of Mechanical Engineering society of the Mechanical Engineering Department, Faculty of Engineering, Alexandria University, EGYPT.

**External:** Enjoy Football, tutoring, and reading.

**REFEREES**

**Eur Ing Professor M R Heikal BSc MSc PhD FIMechE CEng**

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## APPENDIX A: ACHIEVEMENT

S	Project	Place	Date
1	Design and supervisor of achievement of Fire Alarm System & Automatic	Mill Ibrahim Awad- Alexandria-Egypt	7/2010
2	Design and supervisor of achievement of Fire Alarm System & Automatic	Spaghetti Factory Mina	7/2010
3	Design and supervisor of achievement of Fire Alarm System & Automatic	Alexandria Flour Mills and Bakeries	7/2010
4	Design of MICAR Car Service Centre	MICAR- Cairo- Egypt	4/2010
5	Design and supervisor of achievement of Air Conditioning System for Faculty of Physical Education main GYM classroom.	Faculty of Physical Education – Girls – Alexandria University- Alexandria- Egypt	4/2010
6	A member of the purchasing committee of 8 crane fork heavy T.L.T of the stations of Alexandria and ElDekhila	Alexandria Company for Container Handling- Alexandria- Egypt	4/2010
7	A member of the purchasing committee of 6 yard crane payload 40 tons of the stations of Alexandria and ElDekhila	Alexandria Company for Container Handling-- Alexandria- Egypt	4/2010
8	Design of Elzomar Car Service Centre	Terat Elzomer- Cairo- Egypt	3/2010
9	Design of the Complete Car Service Centre	Elkhartoom- Sudan	3/2010
10	A member of the technical committee to determine the specifications of the CMMS (computational maintenance management system)	Alexandria Company for Container Handling- Alexandria- Egypt	1/2010
11	A member of the purchasing committee of 24 Hose reel accidentally restricted tendering	General Administration for university Cities- Alexandria- Egypt	1/2010
12	A member of the disposal committee for heavy duty cranes No 1,2	Alexandria Company for Container Handling- Alexandria- Egypt	1/2010
13	Design of Canal Elsuez Car Service Centre	Canal Elsuez Centre- Abou Rawash- Cairo- Egypt	1/2010
14	Reviewing the paint cars book for the vocational training system in egypt	Improvement of automotive vocational training system in Egypt- KOICA (Korea International Co-operation Agency)- Cairo- Egypt	12/2009
15	Design of Telemasr Car Service Centre	Telemasr Centre- Cairo- Egypt	12/2009
16	Design of Elkhateeb Car Service Centre	Fewa- Kafr Elshekh- Egypt.	12/2009
17	Design and supervisor of achievement of the sewage treatment pumping system of the buildings outside the production units	Sidi Kerir Petrochemicals-- Alexandria- Egypt	11/2009
18	A chief of the Technical Committee to determine the reasons for the diversion of oil from heavy equipment working in Elsuis terminal	Alexandria Company for Container Handling- Alexandria-Egypt	11/2009
19	Design and supervisor of achievement of Natural Gas network the new Foundry area for General Administration of Building &	New Foundry area -El Nahda Area – Alexandria- Egypt	11/2009



	Housing – Department of Housing & Utilities – Alexandria Governorate		
20	Design of Automatic Alarm System	The Faculty of Art – Alexandria University- Alexandria-Egypt	11/2009
21	Design and supervisor of achievement of Alexandria university swimming pool	Alexandria University- Alexandria- Egypt	10/2009
22	A member of Purchasing committee for 8 heavy-duty tractors Alexandria & ElDekhila terminals for Alexandria Company for Container Handling.	Alexandria Company for Container Handling- Alexandria-Egypt	10/2009
23	Design and supervisor of achievement of Air Conditioning System for the Classrooms and outpatient clinics	University Children's Hospital- Alexandria-Egypt	10/2009
24	Design of TOYOTA OCTOBER Car Service Centre	6 October- Cairo- Egypt	10/2009
25	A member of disposal committee for 4 bus for Alexandria Company for Container Handling.	Alexandria Company for Container Handling- Alexandria-Egypt	9/2009
26	Design of the Professional Car Service Centre	Shepien Elkom – Menofia- Egypt	7/2009
27	Design of the pump station & piping for the irrigation area of 15000 acres in Klapsha for Aswan Basateen Co.	Aswan- Egypt	4/2009
28	Design and supervisor of achievement of El Ghandour (Hyundai)	Damanhour- Behira- Egypt	3/2009
29	Design of Forsan el-Khalig (Hyundai) car service Center	Menia- Egypt	3/2009
30	Design and supervisor of achievement of Air Conditioning System for the new labs	The Faculty of Pharmacy – Alexandria University- Alexandria- Egypt	1/2009
31	Design of the Automatic Fire Alarm System	The Faculty of Engineering – Alexandria University- Alexandria- Egypt	1/2009
32	Design of Children incubators & Children Heating Device	Arab Company for Medical Services- Gharbia- Egypt	1/2009
33	Design and supervisor of achievement of Network for the suction system of the university's main hospital surgery	Alexandria University Hospitals- Alexandria-Egypt	1/2009
34	Design and supervisor of achievement of ESSA Car service Centre	Elmansora- Dakhliya- Egypt	12/2008
35	Design of Natural Gas Network required for the steel heating furnaces	Egyptian Company For Trading & Industry	12/2008
36	Design of Automatic Fire Alarm System	The Faculty of Tourism & Hotels – Alexandria University	11/2008
37	Design and supervisor of achievement of medical gases Network in El Shatbi University Hospitals	El Shatbi University Hospitals- Alexandria-Egypt	11/2008
38	Design & Upgrading of compressed Air Network	University Hospital Elshatbi- Alexandria-Egypt	10/2008
39	Design of Automatic Fire Alarm System	The Faculty Of Science – Alexandria University	10/2008

40	Design and supervisor of achievement of the Automatic Fire Alarm System	The University Administration Building in Elshatbi- Alexandria University- Alexandria- Egypt	9/2008
41	Design and supervisor of achievement of of El Housary (Speranza) Car service Centre.	Damanhour- Behira- Egypt	8/2008
42	Design and supervisor of achievement of of Egyauto (Hyundai) Car service Centre	Tanta- Gharbia- Egypt	6/2008
43	Design of Manual and Automatic Fire fighting & Automatic Alarm System	The Faculty of Law – Alexandria University	2/2008

## **APPENDIX B: TRAINING COURSES**

1	Predictive Maintenance Preventive Maintenance , CMMS	<b>Future Training Centre - Alexandria - Egypt (From 15 To 19 AUG. 2010)</b>
2	Compressor & Turbine Operation trouble Shooting	<b>QAFAC – Doha-Qatar (From 1 To 5Aug. 2010)</b>
3	Training Programme Maintenance Technologies For Senior	<b>EZDK Training Program (Senior)– Alexandria - Egypt (From 25 To 29 JUL. 2010)</b>
4	Injury At Work	<b>Alex Fibber Factory- Alexandria - Egypt (From 15 To 16 JUL. 2010)</b>
5	Predictive & Preventive Mechanical Maintenance	<b>Saker Co. For Food Products – Borg El Arab- Alexandria-Egypt (From 10 To 16 JUL. 2010)</b>
6	Mechanical Maintenance Planning , Control & Implementation	<b>Engineering Center – Faculty of Engineering – Alexandria University – Alexandria - Egypt (From 25 To 29 JUL. 2010)</b>
7	Automatic Alarm & Fire Fighting System	<b>Engineering Center – Faculty of Engineering – Alexandria University – Alexandria - Egypt (From 4 To 8 JUL. 2010)</b>
8	Fire Fighting & Alarm System	<b>Future Training Centre - Alexandria - Egypt (From 29 To 30 JUN. 2010)</b>
9	Safety at Work	<b>Galaxy factory - Alexandria – Egypt (From 27 To 28 JUN. 2010)</b>
10	Preventive Maintenance	<b>Zahran Factory - Borg El Arab- Alexandria - Egypt (From 15 To 18 MAY. 2010)</b>
11	Training Programme Maintenance Technologies For Junior	<b>EZDK Training Program (Junior) - Alexandria - Egypt (From 10 To 13 MAY. 2010)</b>
12	Fire Fighting	<b>JAM PACK CO, 6 October-Cairo - Egypt (From 28 To 29 APR. 2010)</b>
13	Effective Tools for Better Maintenance Management	<b>TUV Middle East (Petroleum Companies)– Doha - Qatar (From 13 To 22 APR. 2010)</b>
14	Predictive and Preventive Mechanical Maintenance	<b>Zahran Factory - Borg El Arab- Alexandria - Egypt (From 8 To 12 MAR. 2010)</b>
15	Gas Turbine	<b>Future Training Centre – Alexandria Egypt (From 2 To 4 MAR. 2010)</b>

16	Safety at Work	<b>WAHBA company- El-Obour- Cairo- Egypt (From 19 To 26 FEB. 2010)</b>
17	Gas Turbine Principle & Maintenance	<b>Future Training Centre – Alexandria Egypt (From 24 To 25 FEB. 2010)</b>
18	Fire Fighting & Alarm System	<b>Engineering Centre- Faculty of Engineering– Alexandria University - Alexandria - Egypt (From 14 To 18 FEB. 2010)</b>
19	Fire Fighting & Alarm System	<b>Future Training Centre - Alexandria - Egypt (From 10 To 11 FEB. 2010)</b>
20	Risk Assessment	<b>CSA Textile Company – Borg El Arab- Alexandria - Egypt (From 3 To 4 FEB.2010)</b>
21	Automatic Fire Sprinkler Systems	<b>Alex For You training Centre- Alexandria-Egypt (From 31 DEC. To 4 JAN. 2010)</b>
22	Industrial Safety	<b>CSA Textile Company - Borg El Arab Alexandria - Egypt (From 25 To 26 NOV. 2009)</b>
23	Essentials of Fire Fighting	<b>CSA Textile Company - Borg El Arab Alexandria - Egypt (From 18 To 19 NOV. 2009)</b>
24	Essentials of Fire Fighting	<b>Gazelle for Envelope manufacturing' premises, 6 October-Cairo - Egypt (From 11 To 12 NOV. 2009)</b>
25	Maintenance Technologies	<b>EZDK Training Program (Junior)- Alexandria - Egypt (From 18 To 22OCT. 2009)</b>
26	Safety at Work	<b>Mufaddal for Food Industries Company – El Obour- Cairo - Egypt ( 17 AUG. 2009)</b>
27	Automatic Fire Fighting Systems	<b>Mufaddal for Food Industries Company - El Obour- Cairo - Egypt ( 17 AUG. 2009)</b>
28	Automatic Fire Fighting Systems	<b>Future Training Centre – Alexandria Egypt ( 11 AUG. 2009)</b>
29	Working Place Safety Policy	<b>Afiab Company – Borg El Arab- Alexandria - Egypt ( From 9 To 13 AUG. 2009)</b>
30	Automatic Fire Fighting	<b>Engineering Center – The Faculty of Engineering – Alexandria University – Alexandria - Egypt (From 2 To 6 AUG. 2009)</b>

31	Safety at Work	<b>Saker Co. For Food Products – Borg El Arab-Alexandria-Egypt (From 11 To 17 JUL. 2009)</b>
32	Maintenance Planning & Control	<b>EZDK Training Program (Senior)- Alexandria-Egypt (From 19 To 23 JUL. 2009)</b>
33	Mechanical maintenance	<b>Future Training Centre – Alexandria Egypt (From 19 To 23 APR. 2009)</b>
34	Automatic Fire Fighting Systems	<b>Alex For You training Centre- Alexandria-Egypt (From 7 To 11 JUN. 2009)</b>
35	Gas Turbines Design, Performance , Maintenance & Trouble shouting, Co-generation- Health Monitoring	<b>Future Training Centre-Alexandria- Egypt (From 3To 7 MAY. 2009)</b>
36	Advanced Fire Fighting Systems	<b>Future Training Centre- Alexandria- Egypt (Form 19 To 23 APR. 2009)</b>
37	Mechanical Maintenance planning, control and implementation	<b>TUV Middle East – Dubai (From 13 To 15 MAR. 2009)</b>
38	Mechanical Maintenance planning, control and implementation	<b>Engineering Centre- Faculty of Engineering– Alexandria University - Alexandria-Egypt (From 15 To 17 FEB. 2009)</b>
39	Health &Safety at Work	<b>Alex For You training Centre- Alexandria-Egypt (From 3 To 7 FEB. 2009)</b>
40	Alarm Fire and Security systems	<b>Alex For You training Centre- Alexandria- Egypt (From 3 To 7 FEB. 2009)</b>
41	Automatic Fire Fighting Systems	<b>Alex For You training Centre- Alexandria-Egypt (From 28 JAN. To 1 FEB. 2009)</b>
42	Mechanical Maintenance planning, control and implementation	<b>TUV Middle East – Dubai (From 21 To 25 DEC. 2008)</b>
43	Engine sensing system & ECU- troubleshooting	<b>Arab Academy for Science &amp; Technology &amp; Maritime Transport- Alexandria-Egypt (From 13 To 17 DEC. 2008)</b>
44	Engine systems	<b>Arab Academy for Science &amp; Technology &amp; Maritime Transport- Alexandria-Egypt (From 23To 27 NOV. 2008)</b>
45	Automotive training course	<b>Engineering Centre- Faculty of Engineering– Alexandria University (Form 27 To 31-JUL. 2008)</b>
46	Automatic Fire Fighting Systems	<b>Mido for Paints Co. – Alexandria – Egypt (From 7 To 11 JUN 2008)</b>

47	Automotive training course	<b>Engineering Centre- Faculty of Engineering- Alexandria University (From 27 TO 31-JAN. 2008)</b>
48	Advanced Fire Fighting Systems	<b>Alex For You training Centre- Alexandria-Egypt (From 26 To 30 JAN. 2008)</b>