

**RESUME**  
**August 2008**



Name: **Dr. Farshid Malek Ghaini**

Date of birth: October 1959

**1- Education:**

- 1987-1990** PhD. Welding Technology, Cranfield Institute of Technology (UK) . Through overseas research student (ORS) scholarship obtained from the UK governing board of universities.
- 1985-1986** MSc Welding Technology/QA option, Cranfield Institute of Technology (UK).
- 1984-1985** BSc Honors, Material science Cranfield Institute of Technology(UK).
- 1975- 1980** BSC, Mechanical Engineering Abadan Institute of Technology, Iran.

**2- Some courses completed**

- QA for Process Industries, 1 week , Cranfield Institute of Technology(UK), 1986.
- Pipeline engineering, , Cranfield Institute of Technology(UK), 1987.
- Underwater engineering , Cranfield Institute of Technology(UK), 1988
- Surface engineering , Cranfield Institute of Technology(UK), 19889.
- Assessor/Lead assessor course DNV, Abudahbi, 1993.
- Advanced Total Quality Techniques ,Supply Chain Mngement, Balanced Score Card, Customer Related Management(CRM), Training the Trainers , Strategy Development and Deployment , Continuous Improvement Project Facilitation , DH International Ltd, 15 days, 1998-2003.
- EFQM Excellence Model, Provided by European Foundation for Quality Management, Tehran, 1 week, 2002
- Pressure vessel design according to ASME sectin VIII divisions 1 and 2, Iranian Society of Mechanical Engineers, 2004.

**3- Professional Qualification**

- Member of the scientific committee of the Iranian Standardization Organization and the Iranian National Quality Award, 2003-2006.
- Chartered Engineer(UK), 1993
- Senior Member, The Welding Institute, 1989
- IRCA Lead Auditor and Approved first instructor for IRCA registered Courses.
- Member, American Welding Society, 1991.

**4-Current status:**

- University Lecturer and research officer Tarbiat Moddarress University and guest lecturer at Tehran University and Sharif University of Technology. Subjects of specialty include: Quality control of Welded Structures, Welding Processes, Welding Metallurgy, None Destructive Testing, Inspection of Oil & Gas Equipments, Advanced Quality Control, and Uncertainty in Measurements , Since 1990.
- Managing Director of EAQA-Iran(now AFAQ/EAQA/QMI Iran) and Trainer /Auditor in various industrial sectors , since 1997.

**5- Recent articles :**

- F. Malek Ghaini,et al" Weld metal microstructural characteristics in pulsed Nd: YAG laser welding", Scripta Materialia 56 (2007) 955–958.
- M J Torkamany , F Malek Ghaini , "The effect of process parameters on keyhole welding with a 400W Nd :YAG pulsed laser" , JOURNAL OF PHYSICS D: APPLIED PHYSICS, 39 (2006) 4563–4567.

**6- Work Experiences:**

- 1) EFQM and TQM project in Mobarakeh steel complex(+ 7000 employee, +4MT steel production), gaining vast experience in all aspects of operation of a big steel company(Iron making, Steel making, Hot rolling, Cold rolling, Galvanizing & coating lines, Research & product development, Maintenance, Finance, Marketing & sales, Human resource, QA, QC, Laboratory) including both Technical and managerial aspects(strategy development, major breakthrough projects) , from 1999 to 2008. Previous to this period I have provided training and consultancy for ISO 9001 implementation in Mobarakeh Steel Company(1995-1998). Mobarakeh steel has been always the top company from the start of Iranian National Quality Award(based on EFQM model, since 2003) and this has provided me with a very good benchmarking skill, + 12 years.
- 2) Senior lecturer , International welding Engineer course , Iranian Welding Research and Engineering Centre, since 2002, 6 years.
- 3) Senior welding consultant Tombak Oil facility, three +90 meter double wall full containment storage tanks(according to API 620 code appendix R+Q), 2007-2008, 1 year.
- 4) Senior investigator , Pars consulting Engineering company, Investigation on cracks and repair disputes 56 inch gas pipeline, 2007-8, 1 year
- 5) Senior welding and QA/QC consultant Assaluyeh Oil facilities, two +60 meter double wall cryogenic(-43 C) full containment storage tanks(according to API 620 Appendix R), 2005-6, 1 year.
- 6) Engineering services to Gonbad Wood production factory on the operation & maintenance issues concerning the presses, 2004-2006, 1 year.
- 7) Senior welding and QA/QC responsible/consultant Aghajari Sour Gas injection pipeline(26 inch, 250 atm., according to ASME B31.8 and API 1104 standard), Investigation on cracks and repair disputes 2003-4, 1 year.
- 8) Investigation on problems encountered in the operation of a Francis water turbine crown for Farab company, 2004-2005, 1 year.

- 9) Senior consultant to National Iranian Oil Company(pipeline division), in the construction of crude oil pipeline(24 inch) from Abadan refinery to Mahshahr port, 2002-3, 6 months.
- 10) Senior consultant to Ministry of Power for the Turbine blade, steam turbine chest, and a main gearbox rotor reclamation project, 1995-7, 2 year.
- 11) Engineering services for QA assessment of reclamation work on the Bushehr Nuclear power plant on behalf of National Safety Department of Iranian Atomic Energy Authority, 1994, 6 months.
- 12) Engineering services to Sangan Iron mining and refining project, 2003-2005, 2 years.
- 13) Engineering services to fabrication of ships, Jolaie Factory, 2002, 1 year.
- 14) Engineering services to Sarcheshmeh Copper extraction project (process machinery and equipments), 1999-2001, 2 years.
- 15) QA consultant for the implementation of ISO9000 in the following companies in the period 1990 to 1998:
  - a. Iran Radiator(producer of car radiators, the first Iranian company registered to ISO 9000 series), 2 years
  - b. AMA Industries (a major manufacturer of welding consumables), 1 year.
  - c. Iran Vanet(Car manufacturer), 1 year
  - d. Iran Bearing(largest producer of bearings in Iran) , 1 year.
  - e. Iran Switch (producer of medium voltage electrical switches and panels), 1 year.
  - f. Motogen (the largest manufacturer of electric motors in Iran), 1 year.
  - g. Machine Sazi Arak(a major fabricator of pressure vessels and boilers), 1 year.
- 16) Welding and QA/QC responsible/consultant for Azarab Erection Company involving in design, procurement and construction aspects of the following projects in the period from 1990 to 1998:
- 17) Bushehr Nuclear Power Plant (Metallic Containment damage assessment and repair project), 3 years.
- 18) Bandar Abbass oil refinery LPG spherical pressure vessels (according to ASME code section VIII Division 1), 2 years.
- 19) Ardabil cement factory clinker silos and furnace, 1 year.
- 20) Avaj 2 Oil Tanker boiler repair(according to ASME code mainly), 1 year.
- 21) Gilan combined cycle power plant, 1 year.
- 22) Technical Manager, Welding and Brazing Developments Ltd, Birmingham (UK), manufacturer of specialist furnaces and corrosion resistant equipments, 1990-1, 1 year., full time.
- 23) Delero Stellite Ltd(UK), engineering research into various aspects of the continuous casting procurement / production/inspection processes with the objective of reducing quality problems, 1987-90, 3 years, full time.
- 24) Laboratory engineer, Messrs Sandburg Inspection Engineers, London, 1986, mainly involved in day to day operation of the laboratory and engineering failure analysis, 1986, 6 months, full time.
- 25) Researcher, Central Electricity Board Marchwood Engineering laboratories(UK), study on PWR(reactor pressure vessel) Weld reliability project, 1985, 4 months, full time.
- 26) Project engineer, National Iranian Oil Company, Oil Pipeline construction , 1982-4 , 2 years full time.
- 27) National service, 1980-2, 2 years.

28) 4 three months trainings in various sectors of Oil industry (electrical maintenance, pipeline maintenance, gas supply, and gas compressor station operation), 1976-1980.