



MOHAMMED SALEM Al-Waqfi

**WATER& WASTEWATER TREATMENT CONSULTANT, CERTIFIED TRAINER, M&E
EXPERT**

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Academic Qualifications

- PhD, Chemical Engineering, 2001, Dalhousie University, Halifax Canada.
- M.Sc., Chemical Engineering, 1995, Jordan University of Science & Technology, Irbid, Jordan.
- B. Sc., Chemical Engineering, 1983, University of Wales, Swansea, England.
- "A" level, 1980, Peterborough Technical College, England.

Language Proficiency

Language	Written	Spoken
Arabic	Excellent	Excellent
English	Excellent	Excellent

Courses/Workshops Attended

- Water treatment, 1986, Houseman Company, England.
 - Manufacture and application of industrial paints, 1991, Royal Scientific Society, Jordan.
 - Advanced course in formulation and manufacturing of paints, 1992, Royal Scientific Society, Jordan.
 - Corrosion engineering and its prevention, 1992, Jordan University of Science & Technology, Jordan.
 - 1. Advanced course in industrial wastewater treatment, 1993, University of Jordan.
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- Environmental impact assessment, 1997, 1998, King Hussein Environmental Management Training Program.
 - Cooperative monitoring technologies workshop, 2003, Co-operative Monitoring Centre-Amman.
 - First Arab cleaner production workshop, 2006, Royal Scientific Society, Amman.
 - Creativity, 2006, Royal Scientific Society, Amman.
 - Second Arab cleaner production workshop, 2007, Royal Scientific Society, Amman.
 - Risk assessment seminar, 2007, Royal Scientific Society, Amman

- Project management, 2010, Amman.
- Monitoring and Evaluation, 2010, Geneva, Austria
- Key performance indicators and benchmarking for water utilities, 2010, Amman
- Project Management Office, 2011, Amman.
- Lead auditor training course, 2011, Amman.
- Public participation, the International Association for Public Participation, 2011, London, UK
- Regulatory training, USAID-Institutional Support and Strengthening Program, 2013, Amman
- PMP training course, Method, 2015, Amman
- Training of trainers, ACWUA, 2019, Amman
- فن التدريس الجامعي، كلية الخوارزمي الجامعية، 2019، عمان

Work Experience

2021-present

Full time lecturer, Prince Hussein Academy for Civil Protection

2019- 2021

Full time lecturer, Khawarismi Tehcnical University College

2014-2016

Part-time Lecturer, German-Jordanian University

- Teaching water desalination

2012- 2013

Part-time Faculty member, University of Jordan

- Teaching drinking water engineering and water supply

2010- 2012

Part-time Lecturer, Jordan University of Science and Technology Responsibilities:

- Teaching chemical engineering Thermodynamics.

2010 - 2018

Technical monitoring and auditing manager, Water Resource Management Program (funded by KFW), Program Management Unit

Responsibilities:

- Assist in preparation of Business Plans, Strategic Plans, Quality Assurance Systems, Performance Improvement, Monitoring Systems, Policies etc, including formulation of KPIs and targets setting.
- Develop understanding of existing contracts and assignments and development agreements of utilities.
- General supervision of utilities monitoring and auditing processes.
- Participated in the development of the water sector strategic plan.
- Participated in the development of the strategic plan of Water Authority of Jordan.
- Conducted training courses in M&E system development and Performance Management for utilities.

2003 -2009

Royal Scientific Society (RSS), Director of JAF Liaison Office

Responsibilities:

- Coordinate, promote and manage joint R&D projects between the RSS and Jordan Armed Forces. Quarterly reports must be submitted to the top management (RSS and JAF), assessing and evaluating the ongoing technical collaboration.

2001 – 2003

Project Manager, King Abdullah II Development and Design Bureau (KADDB) Responsibilities:

- Manage research and development projects.

1998 – 2001

PhD Student, Dalhousie University, Halifax, Canada

Thesis "Performance characteristics of a novel liquid-liquid contactor" Theoretical work included

- Turbulence in real fluids.
- Loss prevention/Risk analysis
- Industrial ecology-Management of chemicals and waste
- Biological waste treatment

1995 – 1998

Head of Industrial Safety and Environment Protection Section, Khaldieh

1993–1995

MSc Student, Chemical Engineering Department, Jordan University of Science & Technology

1990–1993

Head of Environmental Control Section, Khaldieh Depot

Responsibilities:

- Supervising drinking and boiler water treatment plants, which involves assessment of the performance and efficiency of treating units such as carbon filter, softener, deareater, etc.
- Supervising of a treatment plant of sanitary and industrial wastewaters.

1983-1990

Supervisor of Cleaning and Finishing Shop, Khaldieh Depot

Short Term Assignments

- Delivering training in utility performance management (including M&E), ACWUA, Feb, 2016
- Development of Training module in leadership empowerment (monitoring of PPP in the water sector), ACWUA, 2018
- Development of Training module in leadership empowerment (O&M Systems), ACWUA, 2018
- Development of requirements for the efficient use of water for Sustainable facilities management guide project, Js Environment, 2019
- Consultant, Independent Verification Agency for the Education Reform Support Program funded by WB, MOE, 2019

Professional Activities

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- Member of the committee of the management of hazardous chemicals and wastes/Ministry of Environment (2005-2009).
 - Co-supervisor: The University of Jordan.
 - External examiner: The University of Jordan.
 - Peer reviewer: Chemical Engineering Journal.
 - Member of the Board of Trustees of Prince Al-Hussein Technical College/Al- Balqae Applied University (2007-2009).
 - Member of the steering committee of the integrated ecosystem management in Jordan

- Rift Valley project (2007-2009).
- Member of the national committee of the mainstreaming conservation of migratory soaring birds into key productive sectors along the Rift Valley/Red Sea fly way project (2008-2009).
 - Member of the organizing committee of the sixth Chemical Engineering Conference of Jordan, 2012

Publications

M. El-Ali, "Electrochemical Reduction of Hexavalent Chromium Using Iron Metal", ESCWA-United Nations meeting, December 1997 (Beirut).

M. El-Ali, A. M. Al Taweel and Y. Xue, "Role of Interfacial Characteristics in Separation Processes", ESTAC Technology Day (poster presentation), Toronto, Canada, Nov. 1999.

M. Al Taweel and M. El-Ali, "Development of an Effective Liquid-liquid contactor", ESTAC Technology Day (poster presentation), Toronto, Canada, Nov. 2000

M. El-Ali, A. M. Al Taweel, F. Hamdullahpur, H. Gomaa and A. Odedra, "Performance Characteristics of a Novel Static Mixer", The Canadian Chemical Engineering Conference, Halifax, Canada, Oct. 2001

A.M. Al Taweel, M. El-Ali, F. Azizi, B. Liekens, D. Odedra, A. Uppal, and H.G. Gomaa; "[*In-Line Processing for Intensifying Multi-Phase Contacting Operations*](#)" proceedings of the 5th Inter. Conf. Process Intensification, 59-73, Maastricht, The Netherlands, Oct. 2003

A.M. Al Taweel, F. Azizi, M. El-Ali, M. Koksai, Y. Gupta, T. Dabros, "[*Accurate Simulating of Drop Breakup and Coalescence and its Use to Design Intensified Diesel Desulphurization Process*](#)", A.I.Ch.E. Annual Meeting, Austin, USA, Nov 7- 12, 2004.

M. El-Ali and B. Telfah, "Enhancement of Performance of Water Utilities through Corporatization: The Jordanian Experience" ACWUA's 4th Best Practices Conference, Sharm Al Sheikh, Egypt, 7-8 December 2011.

M. S. Al-Waqfi and B. A. Telfah, "A Novel Technique for Hexavalent Chromium Reduction", JJEES, Volume 9, (Number 1), April, 2018.

M. S. Al-Waqfi¹ and Z. Qudah, "An Iron Rotating Disk for the Elimination of Hexavalent Chromium from Industrial Wastewaters; Putting it to Work", submitted for publication