

## **Awwad J. Dababneh, Ph.D., CSP**

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### **EDUCATION**

University of Cincinnati, Cincinnati, Ohio. Ph.D. Industrial Engineering (1997). Emphasis on Occupational Safety and Human Factors Engineering.

University of Cincinnati, Cincinnati, Ohio. M.S. Industrial Engineering (1995). Emphasis on Occupational Safety and Human Factors Engineering.

Yarmouk University, Irbid, Jordan. BS, Mechanical Engineering (1987). Emphasis on Thermal Power Engineering.

### **PROFESSIONAL CERTIFICATIONS**

- Certified Safety Professional (CSP) - current.
- OSHA Authorized General Industry Trainer - current.
- Certified Heart Core Instructor, Basic Life Safety Instructor (BLS), BLS CPR-AED and Heartsaver® 1<sup>st</sup> Aid Courses – American Heart Association – current
- Certified National Safety Council First Aid Instructor – current
- Certified Professional Ergonomist (CPE) - (1998 - 2005).
- Certified Supply Chain Manager (CSCM) - (2007 – 2009).
- Lead Assessor Training Certification for ISO third party audits (1999).

### **TEACHING AND RESEARCH EXPERIENCE**

University of Jordan, Amman-Jordan Sept. 2013- Present  
and Feb. 2004-Sept. 2008

*Faculty of Engineering & Technology - Industrial Engineering Department.*

Assistant Professor: Taught graduate and undergraduate class covering topics such as human factors engineering, ergonomics, Safety, and work measurements & method engineering

University of Minnesota, Duluth, MN Aug. 2011-Aug.  
2013

*Swenson College of Science and Engineering – Department of Mechanical and Industrial Engineering.*

Assistant Professor: Teaching classes for BSIE and MEHS including Safety Regulation, Risk Management, Human factors engineering, and Ergonomics.

University of Cincinnati, Cincinnati-Ohio June.1998-May2000

*Faculty of Engineering – Mechanical, Industrial, and Nuclear Engineering Department*

Adjunct Assistant Professor: Taught Occupational Safety and Health, and Industrial Engineering Laboratory for undergraduate students.

National Research Council (NRC), Washington, DC. May 1998 – June 2000  
*A USA governmental agency for the support of scientific research.*  
Postdoctoral Research Fellow: Researched safety and ergonomics in construction, studied related standards and regulation, reviewed “construction” safety performance at the national level. Developed and validated guidelines/checklist for the proper selection and use of hand tools in construction. The checklist was adopted by many including CalOSHA and the Center to Protect Workers’ Rights (CPWR). During my fellowship and as a community service, I trained local construction workers on various safety issues.

National Institute for Occupational Safety & Health, Cincinnati, Ohio Oct.94 – April 1998  
*Occupational safety and health research center under the US Department of Health and Human Services.*  
Guest Researcher: Investigated methods for assessing information processing demands and examined the relationship between job demands and musculoskeletal disorders in computer users. Researched the temporal structure of the workday and examined the effects of rest break scheduling on the productivity and well being of workers

## **BUSINESS/INDUSTRIAL EXPERIENCE**

General Electric (GE) – Oil & Gas, Doha-Qatar July 2009-April 2010  
*A worldwide Turbo-machinery manufacturer and services provider.*

Environment, Health and Safety Manager: Global Services-Middle East: Duties included providing EHS Leadership for Oil & Gas services activities in the Middle East region and workshop activities in Qatar; developed and reviewed site-specific safety plans with project management and customers; assisted in selection and training of job sites and workshop based personnel; developed and update EHS programs and procedures ensuring compliance with all local regulations and GE requirements; performed EHS audits; developed EHS learning program and offered in-class training for all O&G employees; managed environmental aspects of operations; and liaised with government agencies on EHS issues.

Nuqul Group, Inc., Amman-Jordan May 2005-July 2008  
*A conglomerate of 27 companies with diverse businesses and over \$800 Millions in annual revenues.*

Corporate Environment, Safety and Health Manager/Director: Develop a corporate function to provide environment, safety and health services for all companies within the group. Nuqul Group (NG) is one of the Middle East's leading industrial groups with over 5000 employees. Its line of business covers a wide range of products including: raw material and converted hygienic tissue paper non-woven fabrics, processed meats, aluminum profiles, ready-mix concrete, synthetic sponge/foam, plastic pipes, stationery, and printed packaging materials.

Developed two new group-standards; Occupational Safety and Health Management System, and Fire Protection. In a similar approach, I evaluated and re-wrote the group’s standards for the environment in accordance with the requirements ISO 14001.

Developed EHS training material and implemented learning programs for all levels of employees.

Developed “Employee Safety Guide” with 140 illustrated pages in Arabic. The guide included chapters on Mechanical Hazard & Machine Safe Guarding, Electrical Safety,

Chemical Safety, Use of Fire Extinguishers, Office Ergonomics, Manual Material Handling, Selection and Safe use of Hand tools and equipment, Scaffolds and Ladders, Safety Signs, Personal Protective Equipment, Defensive Driving, Emergency Preparedness, First Aid, and Home Safety.

Developed 19 culture-sensitive safety posters, and used it to launch a safety awareness campaign.

Created sample procedures and forms to satisfy the requirements of the developed and the revised ESH standards, and oversaw the implementation of the standards at all Nuqul's Companies.

In 2007, **all** of the safety excellence awards from the Jordanian Social Security Corporation were given to companies within Nuqul Group, and I was awarded the excellence award for the "individual" category.

## **CONSULTING**

Petra Trading and Investment Co. (Petico), Amman-Jordan August 2008-June 2009  
*A major distributor of consumer goods in Jordan with \$100 million in annual revenues.*

Management Consultant/Director of Systems and Procedures  
Supported evaluation of processes and functions, developed company-wide Key Performance Indicators, established targets and acceptable levels of performance, and facilitated improvement-projects.

Texas Instruments, Inc., Dallas, Texas (Full Time Consultant) July 2000-Jan 2004  
*A fortune 100 company and a leading manufacturer of semiconductors.*

Conducted ergonomics audits of manufacturing facilities, provided recommendations for ergonomic solutions/resolutions, conducted research studies for the evaluation of man-machine interfaces, evaluated systems usability, analyzed accidents and human-related scrap events, and provided ergonomics and health and safety training and education to all levels of TI's employees worldwide. Also, assisted in writing corporate policies on issue related to occupational safety and health, and ensured polices are consistent with governmental regulations and industry-standards. One of my original contributions to TI's ergonomics program is the use of 3D computer modeling in the study/evaluation of equipment design and layout.

## **RECOGNITIONS AND AWARDS**

The Excellence Award 2007 from the Social Security Corporation–Jordan, for individual's achievements in the field of Occupational Safety and Health.

University Graduate Research Assistant Scholarship throughout my studies at the University of Cincinnati (1995 -1997); the program was funded by the National Institute for Occupational Safety and Health (NIOSH).

## **PUBLICATIONS: PEER-REVIEWED JOURNALS AND PROCEEDINGS**

Dababneh, Awwad: (2013). “Hands-On Fire Extinguisher Training Apparatuses: Expert Evaluations of Two Propane Fire Simulators and Air-Pressurized Water Extinguishers.” - American Journal of Engineering and Applied Sciences; manuscript in review.

Awwad J Dababneh, Paul A Schwab (2014). “Impact of Gloves on User Performance and Comfort in the Semiconductor Industry Human Factors and Ergonomics in Manufacturing & Service Industries”. Nov. Dec. 2015 Volume 25, Issue 6, Pages 638-645.

Dababneh, Awwad; Schwab, Paul: (2012). “Ergonomics of Gloves: A General Overview, and Specific Assessment of the Impact of Gloves on User Performance and Comfort in the Semiconductor Industry” - presented at the 15th Annual Applied Ergonomics Conference, Nashville, Tennessee, March 26 – 29, 2012.

Dababneh, Awwad: (2007). Effective Occupational Health and Safety Management System: A Framework for Meeting the Requirements of OHSAS 18001, Article and Presentation, 10<sup>th</sup> Annual Applied Ergonomics Conference (March 12-16, 2007), Dallas, Texas (Award Winner).

Dababneh, Awwad; Brian Lowe; Ed Kraig; Yong-Ku Kong and Waters, Thomas (2004). A Checklist for the Ergonomic Evaluation of Nonpowered Hand Tools, Applied Occupational and Environmental Hygiene, December 2004: D135–D145.

Dababneh, Awwad; Schwab, Paul; and White, Keith: (2002). Systematic Approach to Incorporate Ergonomics Principles in the Design of a Facilities-Layout, Presentation, 6th Annual Applied Ergonomics Conference (March 11-13, 2003), Dallas, Texas.

Dababneh, Awwad; Schwab, Paul; and White, Keith: (2002). Minimum Vertical Clearance at Load Ports for Three Standardized Silicon Wafer Carriers, Presentation, 6th Annual Applied Ergonomics Conference (March 11-13, 2003), Dallas, Texas.

Schwab, Paul; White, Keith; Dababneh, Awwad: (2002). Application of Ergonomics Guidelines to Equipment Installation and Workstation Design, Presentation, 5th Annual Applied Ergonomics Conference (March 12-14, 2002), Baltimore, Maryland.

Dababneh, Awwad and M.A. Al-Nimr (2002). A reverse osmosis desalination unit, Desalination. 153: 265-272.

Dababneh, Awwad; White, Keith; Schwab, Paul: and Selan, Joe (2001). Ergonomic Evaluation and Control of Retical Manual Handling, Presentation, The IIE 2001 conference, Orlando, FL (March 12-15, 2001).

Selan, J.L., White, K., and Dababneh, A, (2001). Ergonomic Assessment of Manual Handling of Reticle Pods, Proceedings of the SSA '01 Annual Symposium. New Orleans, LA. (April, 2001).

Dababneh, Awwad, Shell, Richard, and Swanson, Naomi (2001). Impact of added rest breaks on the productivity and well being of workers, ERGONOMICS- FEB 2001; 44 (2): 164-174.

Dababneh, Awwad and Waters, Thomas (2000). Ergonomic Evaluation of Rebar Tying Methods. Applied Occupational and Environmental Hygiene, Volume 15(10): 721-727, 2000.

Dababneh, Awwad and Waters, Thomas (1999). The Ergonomic Use of Hand Tools: Guidelines for the Practitioner. Applied Occupational and Environmental Hygiene, Volume 14: 208-215, 1999.

References:

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