

Tamer A. Mohamed, PhD, CQE

Egyptian/British Citizen
Assistant Professor
Mechanical Engineering Department
British University in Egypt
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EDUCATION:

Wichita State University, Wichita, KS

Ph.D., Industrial Engineering

(Engineering Systems – Industrial Safety)

Awarded December 2004

Cairo University, Cairo, Egypt

Graduate Diploma, Statistics

Awarded June 2001

Ain Shams University, Cairo, Egypt

M. Sc., Industrial Engineering

Awarded October 2000

Cairo University, Cairo, Egypt

Graduate Diploma, Operations Research

Awarded June 2000

Ain Shams University, Cairo, Egypt

B. Sc., Production Engineering

Awarded June 1998

CERTIFICATION:

American Society for Quality, USA

Certified Quality Engineer (CQE)

Certification # 46396

TRAINING EXPERIENCE

- Company Codes and Standards, ADNOC, Abu Dhabi, July 2008
- Customer service, Commercial Bank International, Dubai, April 2008
- Inventory Planning and Stock Control, ADNOC distribution, Abu Dhabi, January 2008
- Industrial Safety Problem Solving, ZADCO, Abu Dhabi, UAE, December 2007
- Problem Solving and Decision Making, DEWA, Dubai, UAE, December 2007
- Industrial Safety Problem Solving, ZADCO, Abu Dhabi, UAE, December 2007
- ISO 900 Requirement, Salemco Textile, Cairo, Egypt, July 2007
- ISO 9000 Auditing, Salemco Textile, Cairo, Egypt, August 2007
- Technical Report Writing, Dubai Municipality, Dubai, UAE, April 2007
- Industrial Risk Assessment and Behavior Based Safety, Cairo University Industrial Training, Cairo, Egypt, March 2007
- Quality of Service-Managing Hospital Quality, El-Nozha Hospital, Cairo, Egypt, March 2007
- Ergonomic use of Computer Workstation, Qatar University, Doha, Qatar, February 2007
- Project Scheduling, Monitoring and Control, Qatar University, Doha, Qatar, January 2007
- Project Budgeting, Cost Estimation, and Resource Allocation, Qatar University, Doha, Qatar, January 2007
- Advanced Technical Report Writing, DEWA, Dubai, UAE, July 2006
- Risk Management in Projects, El-Masria Construction Company, Cairo, Egypt, November 2005
- Safety at Work, ZMC – Misr Compressor company, Cairo, Egypt, September 2005
- Project Management, El-Masria Construction Company, Cairo, Egypt, September 2005
- Statistics and Statistical Quality Control, Good Water Systems, Wichita, Kansas, March 2004.
- Sampling Inspection Techniques, Tweco-Arcair, Dallas, Texas, June 2004.

TEACHING EXPERIENCE:

British University in Egypt, Cairo, Egypt

Assistant Professor

Mechanical Engineering Department

September 2007 – Now

- Teaching undergraduate classes: Engineering Drawings, Engineering Economics, Engineering Projects Management, Principle of Management, Systems theory, and Metrology.
- Utilize Moodle to communicate with students in the above courses.
- Carry out QAA regulations for program validation.

Qatar University, Doha, Qatar

Assistant Professor

Industrial Engineering Department

February 2006- September 2007

- Teaching undergraduate classes in the female section: Project Engineering, Manufacturing Technology, Engineering Probability and Statistics, Production Automation, Design of Experiments, Information Systems, Statistical Quality Control, Production Planning and Control, Maintenance Planning, and Work Measurements and Methods.
- Utilize Blackboard to communicate with students in the above courses and to post class notes and assignments.
- Carry out the ABET accreditation requirements for each of the above courses.
- Participated in the Department Quality Assurance and the ABET Accreditation Committees.
- Academic Advising of Students in the Industrial Engineering Program
- Lead research projects in the area of mechanical engineering

Ain Shams University, Cairo, Egypt

Assistant Professor

Production Engineering Department

December 2004- February 2006

- Teaching graduate and undergraduate classes including: Production Technology, Statistical Quality Control, Quality Systems, Marketing, Engineering Management, and Technical Report Writing.

Akhbar El-Yoom Academy, Cairo, Egypt

Adjunct Faculty

Business Administration Department

September 2005-January 2006

- Teaching Operation/Production Management Class for Undergraduate Students

Computer Science Department

January 2005-June 2005

- Teaching Operations Research Class for Undergraduate Students

Wichita State University, Wichita, KS

Graduate Teaching Assistant

Department of Industrial & Manufacturing Engineering

Aug 2001-December 2004

- Teach undergraduate classes (IEN-254, Engineering Probability and Statistics I), this includes the following:
 - The study of the concepts of probability theory, random variables, distributions, moments, sample statistics and confidence intervals
 - Hypothesis testing of means and variances
- Develop and post class material on university web blackboard
- Assist in teaching different graduate and undergraduate courses including: Statistical Process Control, Quality Engineering, Engineering Economy, Design of Experiments, and Reliability and Maintainability Engineering, tasks include the following:
 - Grade exams and assignments; Lead review and problems sessions
 - Coordinate and facilitate field trips
- Participate in the Curriculum and Assessment Committee
- Administrate and analyze Midterm Student Perceptions of Teaching Effectiveness

Ain Shams University, Cairo, Egypt

Graduate Teaching Assistant

Production Engineering Department

Sept 1998-Aug 2001

- Assist undergraduate classes including: Manufacturing Engineering, Production Technology, Engineering Statistics, Statistical Quality Control, Quality Engineering, , Work Study, and Plant Layout

American University in Cairo, Cairo, Egypt

Adjunct Faculty

Mechanical Engineering Department

Jan 1999-June 2000

- Design and administrate laboratory exercises for Manufacturing Engineering class

- Assist undergraduate classes: Production Engineering Technology

INDUSTRIAL EXPERIENCE:

El-Masryia Construction Company, Cairo, Egypt

Project Manager

May 1998- June 2000

- Manage construction projects and design teams to meet schedules and budgets, this includes:
 - Develop technical and financial tenders for new projects
 - Participate in negotiation meetings
 - Acquire different governmental permits
 - Establish major phases of the projects
 - Ensure that projects satisfy their objectives and meet quality, cost and time targets
- Interface with clients for current projects, and use the opportunity to sell future projects

PUBLICATIONS:

- Khalifa Al-Khalifa, Tamer A. Mohamed, and Ameer Al-Salem, "ISO 9000:2000 Quality Management Standard: Experience in the State of Qatar" Published at the International Journal for Productivity and Quality Management, August 2008.
- Tamer A. Mohamed, Yasmine AbdelFattah, and Mohamed Gadallah, "Improvement of Airline Industry Service Quality" Published at the Journal of Management and Engineering Integration, Summer 2008.
- Ashraf Galal and Tamer A. Mohamed, "Dimensions of Service Quality for TV Satellite Channel Programs", Published at the Proceedings of the 14th International Conference on Industry, Engineering, and Management Systems, Florida, March, 2008.
- Tamer A. Mohamed, Ameer Al-Salem, and Khalifa Al-Khalifa, "Prioritizing Quality Improvement Opportunities in Case of Limited Resources" Published at the Proceeding of the International Conference on Management of Technology, Miami Beach, Florida, USA, May 2007.
- Mohamed Gadallah, Ameer Al-Salem, Khalifa Al-Khalifa, and Tamer A. Mohamed "A Modified Branch & Bound Algorithm via Orthogonal Array based Enumeration Techniques - Background Method & Preliminary Results" Published at the Proceeding of the 7th World Congress of Structural & Multi-disciplinary Optimization, Seoul, Korea, May 2007.
- Mohamed Gadallah, Khalifa Al-Khalifa, Ameer Al-Salem, and Tamer A. Mohamed "Solution of NP Hard Problems Using Orthogonal Array Based Enumeration Techniques: II – Computational Experience" sent to the Transactions of Canadian Society for Mechanical Engineering (CSME) for publication. **Under Review**
- Mohamed Gadallah, Khalifa Al-Khalifa, Ameer Al-Salem, and Tamer A. Mohamed "Solution of NP Hard Problems Using Orthogonal Array Based Enumeration Techniques: I - Background Method" sent to the Transactions of Canadian Society for Mechanical Engineering (CSME) for publication. **Under Review**
- Tamer A. Mohamed, Gamal S. Weheba, and Abu S. Masud, "Economic Design of R-Control Charts: A Proactive Approach" Proceedings of the 11th International Conference on Industry, Engineering, and Management Systems, Florida, March 14-16, 2005
- Weheba, G., and Tamer Mohamed, "Economic Design of Control Charts: A Review of Recent Development", Published at the Proceedings of the 10th International Conference on Industry, Engineering, and Management Systems, Florida, March 15-17, 2004
- Mohamed T., and Gamal Weheba, "Safety Interventions and Process Quality", Published at the Proceedings of the 9th International Conference on Industry, Engineering, and Management Systems, Florida, March 17-19, 2003, pg. 429-433

FUNDED RESEARCH PROJECTS:

- Establishing an Airlines Quality Index Based upon Qatar Residents and Visitors, Principal Investigator, 8 Months, 24,000 QR (\$7,000), Office of Research at Qatar University, September 2006.
- Surrogate Modeling Schemes: Applications to Single and Multi-Objective, Co Investigator, 9 Months, 20,000 QR (\$5,500), Office of Research at Qatar University, October 2006.
- Arab Space Channel Quality-Based Viewer-ship (ASCQB), Co Investigator, 6 Months, 45,000 QR (\$12,500), Office of Research at Qatar University, October 2006.

ACCOMPLISHED RESEARCH PROJECTS:

- Six Sigma Implementation at ZMC compressor company, Cairo, Egypt, January 2006
- Introduction of SPC in one of the public hospitals in Egypt to improve process quality, Cairo, Egypt, December 2005

- Safety Interventions at Coleman Company, Wichita-Kansas, March 2003
- Design and develop an interactive CD to train K-12 students on using different problem solving tools in support of Koality Kid Initiative, Wichita State University, Wichita-Kansas, March 2002
- Formulate a mathematical model between failure quality cost reduction and ergonomics intervention cost, Wichita State University, Wichita-Kansas, November 2001
- Design and develop database software for Quality Assurance, CAIROMATIC Construction Company, Cairo-Egypt, August 2000 “Master Thesis”

AFFILIATIONS:

- Kansas Award for Excellence Foundation, Kansas, USA, (2003), Examiner
- American Society for Quality (ASQ), USA, Member
- WSU-ASQ Student Chapter, , USA, Vice President
- Phi Kappa Phi Honor Society, USA, Member
- Alpha Pi Mu Honor Society, USA, Member

HONORS/AWARDS:

- Best Graduate Teacher Assistant, Industrial and Manufacturing Engineering Department, Wichita State University, 2003-2004.
- Engineering Open House Project Award, “Safety Interventions at Coleman Company”, American Society for Safety Engineering-Wichita section, April 2003
- Tutor Recognition, Disability Support Services, Wichita State University, April 2003
- Engineering Open House Project Award, “Interactive Guide to SPC in Support of Koality Kid Initiative”, American Society for Quality-Wichita section, April 2002

CONSULTING SERVICES:ZMC (Zanussi Misr for Compressors manufacturing),

10th of Ramadan City, Egypt

July 2005- June 2006

Responsibilities include:

- Leading a team of five engineers concerned with developing bi-language plant coded work instruction manual.
- Organizing brain storming meetings for the team.
- Ranking departments to be investigated according to their importance to the plant.
- Analysis of manuals for data extraction.
- Site visiting for practical evaluation of the problem.
- Developing work instructions for each work station.
- Examining the written work instructions.

Midani Man Made Fibers Company,10th of Ramadan City, Egypt

October 2005- June 2006

- Support the implementation of ISO-9000 initiatives

COMPUTER SKILLS:

Windows 98/2000/XP/Vista platforms, Microsoft Office (Word, Excel, PowerPoint, Access), AutoCAD, Minitab, SAS, JMPIN, SPSS, Re-sampling Stats, Design Expert, Forecast X, Precision Tree, and Math-Cad 12