

Dr. Sandra C. Affare, PMP®
Adjunct Instructor
College of Engineering and Computer Science
University of Tennessee at Chattanooga
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Chattanooga, Tennessee 37406-2598

Education

2016 - Ph.D. Industrial Engineering, University of Tennessee - Knoxville
2001 – MBA (Production & Operations Management), University of Tennessee - Chattanooga
1998 - B.S. (Industrial) Engineering, University of Tennessee at Chattanooga

Professional Experience

2018 – present *Assistant Professor of Practice*, University of Tennessee Space Institute
2017 – 2018 *Adjunct Assistant Professor*, University of Tennessee
2015 – 2018 *CIP/IT Project Management Consultant*, Covenant Transportation Group
2000 – 2014, *Sr. Engineering Compliance Analyst and Project Manager*, TVA
1999 (Summer Only) *Industrial Engineer*, Calsonic Yorozu Corporation
1993 – 1997 *Engineering Contractor*, Tennessee Valley Authority (TVA)

Courses Taught

EM536 *Project Management*, University of Tennessee Space Institute, Summer 2018
EM5540 *Technical Project Management*, University of Tennessee Chattanooga, Spring 2018
EM538 *New Venture Formation*, University of Tennessee Space Institute, Spring 2018
EM601 *Systems Theory and Engineering*, University of Tennessee Space Institute, Fall 2017
Project Management Professional Exam Boot Camp, UTC Continuing Education, Fall 2017
Project Management Professional (PMP)® Exam Prep, UTC Continuing Education, Spring 2017

Research Interests

- High Reliability Organizations (HRO)
- Technical Project Management
- Entrepreneurship

License & Certification

Project Management Professional, Project Management Institute, License # 232398
Power Systems Certification, Georgia Tech October 2005.

Technical Publications

Christopher J. Melhorn et al, "Application of Power Quality Monitoring Data for Predictive Maintenance," *PQA Conference North America*, Pittsburgh, PA, 2001.

J. Dong et al., "Analysis of Power System Disturbances Based on Wide-Area Frequency Measurements," *2007 IEEE Power Engineering Society General Meeting*, Tampa, FL, 2007, pp. 1-8. doi: 10.1109/PES.2007.385654

Jian Zuo et al., "Development of TVA SuperPDC: Phasor applications, tools, and event replay," *2008 IEEE Power and Energy Society General Meeting - Conversion and Delivery of Electrical Energy in the 21st Century*, Pittsburgh, PA, 2008, pp. 1-8. doi: 10.1109/PES.2008.4596276

Technical Presentations

"Analyzing Healthcare Tools Practitioners Use to Implement HRO Theory," ISERC, 2015, Nashville, TN

"HRO Healthcare Research," High Reliability Organization Workshop, 2015, Manchester, TN

Professional Memberships

Project Management Institute (PMI) – Chattanooga Chapter 2017 - Present

- Director of Training and Development (2017)
- PMI Education Foundation (PMIEF) Chapter Liaison (2018)