

■ Training

- Livestream with trainer access for Q&A
- 15 hours of training over 3 days
- Attendance certificate after completion of full course
- Full attendance of all 15 hours calculates to **2 AEE renewal credits**
- 1 hour online exam to be taken within three (3) months of course. Only one exam rewrite is allowed, after the second fail you need to retake the course.

■ Course Outline

Energy efficiency has demonstrated, time and time again, that if managed properly through a systems approach it can save firms money, from small to large businesses, from buildings to manufacturing plants. Production costs and product costs are reduced, reliability of operations is increased, wastages are decreased not only around energy use, better maintenance of equipment is enabled resulting in less downtime and scrap production, positive impact on productivity and competitiveness, it offers attractive financial and economic returns, reduces the risk and exposure to rising energy prices, and increases security of supply.

Implementing a system is the recommended first step before projects even start to be considered, and more so before considering renewable and alternative generation options.

The learning outcomes for this course:

- Understand the benefits of a systematic approach to energy management
- Awareness and understanding of the various components and requirements of an EnMS
- Understand the importance of energy performance overview of the supporting energy metrics
- Building the business case for an EnMS
- Improve your energy performance by starting with your own EnMS implementation
- Learn to use the UNIDO EnMS tool to manage the planning, implementation, and checking with reviews required
- Options for ISO50001 certification and the process towards it

■ Trainer: Denis van Es

Denis has his BSc and MSc in Mechanical Engineering with over 45 years technical and managerial experience in mechanical services and energy management within South Africa, continental Africa and the UK. He is an EVO CMVP accredited trainer.

He is an experienced academic in the field of energy efficiency, including the preparation of guidelines for the Clean Development Mechanism, and an external examiner for post graduate learners at both the University of Cape Town and the University of Stellenbosch. He has international accreditation as an M&V trainer and is a Certified Measurement & Verification Professional. He is accredited under a US Department of Energy programme for industrial energy audits.

Denis van Es was a member of the SABS technical committee working on ISO 50 000 and is qualified at expert level in Energy

Management Systems. He was a contributor to a recently published Global Energy Assessment, focusing on industrial energy efficiency in South Africa. Further international activity includes being a contributing candidate at a G8 conference in Oxford, England. He works as a consultant to industry in the area of resource efficiency,

especially energy efficiency, including implementation under the Eskom Integrated Demand Management programme. He is a registered Professional Engineer in South Africa and as a Chartered Engineer in the UK. He is a Member of several engineering institutions and is a Fellow of the Institution of Mechanical Engineers.

Denis currently applies himself mainly to training in the fields of Energy Management Systems, as well as Measurement & Verification and is an AEE and EVO accredited trainer for CMVP.



■ For bookings and enquiries, contact



Training
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