

■ Training

- Livestream with trainer access for Q&A
- 15 hours of training over 3 days
- Attendance certificate after completion of the full course
- Certificate of completion on passing the test
- 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

The course assists with understanding the need and importance of using a systems approach to accurately evaluate stem systems and optimisation opportunities, to calculate costs associated with steam system operation, measure individual boiler as well as overall system efficiency, estimate the magnitude of specific steam generation and distribution losses, identify and prioritise areas of potential boiler and overall - generation of efficiency improvement, recognise the impact of fuel selection, evaluate the effectiveness of the distribution system, identify certain areas of end-use efficiency improvements - heat exchanger effectiveness, waste heat recovery, thermo-compressors and absorption chillers, characterise the operational impact of backpressure and condensing steam turbines, recognise the requirements of an appropriate steam trap management program, evaluate the economic impact of condensate recovery, identify a good set of tools and resources, including software, standards and guidance, that can help identify steam system performance improvement opportunities.

■ Trainer: Darrin McComb

Darrin McComb has his BSc. Hon, M, OL, Certified Energy Manager (CEM), is a Professional Natural Scientist (SACNASP) and a Green Star SA Accredited Professional, an accredited UNIDO Steam Systems Optimisation trainer, Fans Systems Optimisation trainer, Energy Management System Optimisation trainer and a Resource Efficiency Cleaner Production trainer.

For the past 18years focused on waste management, Cleaner Production Audits (solid waste, energy and water in particular), as well as sustainability on a strategic and implementation level. This includes co-generation feasibility analyses and carbon footprint against the GHG Protocol.

Darrin has developed and conducted energy workshops for private concerns such as Coca Cola Africa and Distell as well as expert level training for the National Cleaner Production Centre South Africa (NCPC-SA).



Darrin has been accredited as a UNIDO steam system expert and trainer through the IEE programme and has done assess, emts across a broad range of industries including petrochemical, automobile, agro-processing and chemical sectors

■ For bookings and enquiries, contact your regional partner



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