



Masterclass: Compressed Air System Energy Assessment and Performance Optimization

Course Summary

The workshop provides an introduction to Compressed Air System Management using the Systems Approach. Optimizing the system evaluates performance with reduced concern for individual component efficiency and greatest emphasis on how all parts of the system operate together. The system envelope begins with operation of air compressors, through operation of pneumatically powered equipment and productivity of manufacturing operations. Air system performance including the business impact on productivity and product quality is discussed.

Course Outline

In this course, you learn the essentials of the systems approach. Including compressed air system design from compressor to end use, including piping and fittings, materials, codes and standards. Learn to optimize the system, to create and maintain balance between system supply and end use demand. Eliminate waste lost to leakage and inappropriate use of compressed air. You also gain an understanding of the maintenance issues that apply, the cost of air leakage, and the methods of detecting and correcting system faults to ensure smooth operation.

8 - 10 October 2018
9am - 5pm
Singapore Sustainability Academy
180 Kitchener Road Level 6 Sky Park, #06-10
City Square Mall Singapore 208539



Program Outline

- Session 1: Compressed Air Management – the Systems Approach
- Session 2: The Investment in Pneumatic Energy
- Session 3: Cost to Operate the System – Compressed Air Consumption
- Session 4: The Business Impact of Compressed Air System Operation
- Session 5: Compressed Systems Performance Modeling
- Session 6: Introduction to Compressed Air System Benchmarking
- Session 7: Performance Analysis overview
- Session 8: System Management Strategies – the basics
- Session 9: Compressed Air System Empowerment
- Session 10: Air Compression Basics
- Session 11: Compressor package performance and system optimization
- Session 12: Centrifugal Air Compressors
- Session 13: Compressed Air Treatment Equipment
- Session 14: Compressed Air Piping – Pneumatic Energy Transmission
- Session 15: System Design – Demand Side & End Use Applications
- Session 16: Air System Specification
- Session 17: Compressed Air Safety
- Session 18: System Maintenance and Efficiency
- Session 19: Reducing Cost of Compressed Air Systems
- Session 20: Critical Elements of a Compressed Air System Assessment
- Session 21: Using Profile Information to for System Optimization

Mr. Tom Taranto



Tom Taranto is an independent compressed air system professional with more than 40 years of experience providing services to industrial clients, utilities, and energy agencies. He is the owner of Data Power Services, LLC. He has extensive experience in design and application of fluid power systems both hydraulic and pneumatic. Tom's work involves compressed air system design, air compressor application, and performance of related compressed air system components. He conducts compressed air system assessments, equipment testing, and compressed air system training throughout the world. Tom is a U.S. DOE Energy Expert, Compressed Air Challenge (CAC) technical committee member, a CAC qualified instructor, and instructor for Qualified AIRMaster+ Specialist training. Tom is Co-Vice Chair and team member for ASME Standard EA-4-2010 "Assessment for Compressed Air Systems". He is a technical committee member of the International Organization for Standardization, technical advisory group Energy Management for Air compressors and compressed air systems. The committee is responsible for Standard ISO 11011 "Compressed air – energy efficiency – assessment" (committee TC118/SC6/WG4).

Rates

Normal	Group
SEAS Member: \$ 1300.00	3 participants and above \$ 1350.00
Non-Member: \$ 1400.00	SCEM Special Rate \$ 1350.00

Fees are inclusive of GST

SEAS may cancel or reschedule a course at its discretion and will use reasonable efforts to notify delegates at least 5 working days in advance. In these circumstances, delegates will be offered an alternative date, an alternative location or a full refund of course fees paid. SEAS is not responsible for airline or accommodation costs incurred by delegate in the event a course is cancelled or re-scheduled.

Substitutions (name changes) are accepted at any time prior to the event without penalty, subject to the replacement delegate satisfying any necessary course pre-requisites.

E2I Training grant pending approval

Call us at +65 6338 8578 to enquire

Email: training@seas.org.sg

Registration Form

Yes! I would like to register for this programme

I am unable to attend but please put me on your mailing list

Participant's Details

1	Name (Dr/Mr/Ms/Mrs) Hp NRIC	Designation Email
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Participant's Details

2	Name (Dr/Mr/Ms/Mrs) Hp NRIC	Designation Email
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Billing Information

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