

CERTIFIED QUALITY ENGINEER FOR AEROSPACE (CQEA)

- a collaboration to nurture aerospace quality professionals

Objectives	This course aims to equip participants with a complete set of tools and techniques for control and improvement of product quality, reliability and safety for application within the aerospace industry. It covers aspects pertaining to the implementation of an effective quality control system as well as experimental design for investigation and quality improvement. This course will also cover management planning, inspection and testing to achieve reliable, maintainable and safe products to customer specifications and requirements.
Duration	167 hours (3 to 5 months)
Who should attend	Engineers or Managers and those participants who intend to acquire knowledge in quality assurance and statistical methods to improve product quality, diagnose and solve various industrial quality problems for overall improvement of the quality systems.
Entry Requirements	<ul style="list-style-type: none"> - A diploma with at least 3 years of working experience in the quality field; or - A degree with at least 1 year of working experience in the quality field
Course Fees	<p>AAIS / SQI Member*: S\$4,725.12/pax Non-Member: S\$5,527.62/pax <i>(inclusive of S\$17.12 registration fee and S\$214 Exam & Certification fee)</i> <i>All fees stated are inclusive of 7% GST</i></p> <p><i>*AAIS Members - refer to www.aais.org.sg/our-members</i> <i>*SQI Members - refer to www.sqi.org.sg/membership/</i></p>
Assessment Method	Written examination – held approximately 4 weeks from the end of course
Certification	This is a course jointly organized by AAIS and SQI. Course Certificate will be issued to participants who have attended 75% of the course and successfully passed the assessment.
Advantage	Participants that have obtained the CQEA certification can progress to pursue the programmes offered by SQI such as Certified Quality Manager and ASQ Lean Six Sigma Black Belt.

TRAINING POLICY

AAIS and SQI reserves the right to re-schedule or cancel any course due to unforeseen circumstances. Every effort will be made to inform the registered participants of the changes.

<p>Course Content</p>	<p>Aerospace Quality Practices and Applications</p> <ul style="list-style-type: none"> - Aerospace Standards (AS 9100, AS 9110, AS 9120) - Quality Systems - National Aviation Regulatory Framework, including Human Factors and SMS - Product, Process and Material Control - Quality Audit - Quality Improvement Tools: Cost of Quality, Continuous - Improvement Tools Quality Planning & Management - Six Sigma Approach - Risk Management and Communication Skills - Lean tools & Kaizen - Supplier Quality Management 	<p>Measurement Systems</p> <ul style="list-style-type: none"> - Metrology - Repeatability & Reproducibility Studies, Destructive & Non-destructive Testing Concept <p>Statistical Principles and Applications – Six Sigma</p> <ul style="list-style-type: none"> - Statistical Quality Control - Statistical Inference - Correlation and Regression Analysis - Statistical Process Control - Design of Experiments <p>Practical Measurement Systems</p> <ul style="list-style-type: none"> - Basic Reliability Concepts - Product Design, Development and Production - Maintainability - Product Safety
<p>Course Notes</p>	<p>PDF Materials (exclude Aerospace Standards) will be provided prior to the start of every module, participants are required to bring along their laptops for every class.</p>	
<p>Key Benefits</p>	<p>Participants will have a fundamental understanding of:-</p> <ul style="list-style-type: none"> - Quality principles, quality systems, aerospace standards, organizational and team dynamics, customer expectations and satisfaction, - Basic understanding of the audit process in the aerospace environment including types of audits, planning, preparation, execution, reporting results and follow-up supplier relations and performance, - Leadership, training, interpersonal relationships, improvement systems and professional ethics, - Develop and implement aerospace quality programs, including tracking, analyzing, reporting and problem solving, - Knowledge of reliability, maintainability, and risk management, including key terms and definitions, modeling, systems design, assessment tools and reporting, - Through understanding of problem-solving and quality improvement tools and techniques, - Statistical principles to acquire and analyze data using appropriate standard quantitative methods across a spectrum of business environments to facilitate process analysis and improvement. 	
<p>Find out more</p>	<p>AAIS - Ms Lee May Sze Lee_Maysze@aais.org.sg +65 9030 7349 www.aais.org.sg/CQEA</p>	<p>SQI - Ms Trista Tan trista@sqi.org.sg +65 6467 4225 / +65 9654 4391 www.sqi.org.sg</p>

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