

International Aerospace Quality Group (IAQG) Training Course Specification Sheet.		Reference: TCSS 002
		Issue: 27 August 2021
Course Title	IAQG Aviation, Space and Defense ( <b>ASD</b> ) <b>Industry Specific Knowledge</b> Course.	
Purpose of the Course	To provide ASD industry specific knowledge and demonstrate an understanding of the principles, requirements, controls and application of the topics detailed in the course syllabus.	
Course Duration	3 days (or 24 hours) minimum, including a 2 hour written examination.	
Course Structure	Subject matter presentation and active participation in discussion, activities etc. as appropriate to the delivery method in order to embed the learning.	
Type of Delivery	<p>This course can be delivered by a Training Provider (TP) in any one of four formats:</p> <ol style="list-style-type: none"> <li>1. Face to face (classroom) learning delivered over consecutive days.</li> <li>2. Remote (virtual) learning delivered consecutively (preferred) or spread over a period of time, determined by the Training Provider (TP).</li> <li>3. On-line learning accessed by the student and undertaken at their own pace</li> <li>4. Modular learning (face to face, remote or on-line). Modules selected by the student should be based on their current knowledge and provide learning on specific elements of the syllabus.</li> </ol> <p><i>Note: Evidence of knowledge of the full ASD industry specific course syllabus requirements is demonstrated by the successful completion of an approved examination (see Criteria for Examination and/or Assessment).</i></p>	
Class Size	To be determined by the TP.	
Language(s)	Variable dependent on region.	
Course Variation	ASD regulatory requirements (e.g. regional authority regulations) covered in the course shall be applicable to the location in which the course is presented.	
Course Syllabus	<p>The course shall include detailed introductions of the principles, requirements, controls and application across the ASD industry of;</p> <ul style="list-style-type: none"> <li>• Advanced product quality planning (APQP);</li> <li>• Production part approval process (PPAP);</li> <li>• Change control;</li> <li>• Containment, cause analysis, and corrective action;</li> <li>• Configuration, identification, and traceability;</li> <li>• Critical items and key characteristics;</li> <li>• Design and development;</li> <li>• External provider approval and control;</li> <li>• Human factors;</li> <li>• Foreign object damage/debris (FOD) prevention program;</li> <li>• Material handling and preservation of products;</li> <li>• Nonconforming material management;</li> <li>• Operational risk management;</li> <li>• Special processes, including National Aerospace and Defense Contractors Accreditation Program (Nadcap);</li> <li>• Sampling inspection or testing.</li> <li>• ASD regulatory requirements;</li> <li>• Safety management systems (SMS);</li> <li>• Product safety;</li> <li>• Production processes and product verification/validation; and</li> <li>• Prevention of counterfeit parts;</li> </ul>	
Learning Objectives	<p>Students will gain knowledge and understanding during the course of:</p> <ul style="list-style-type: none"> <li>• APQP and PPAP (9145);</li> <li>• Change management and control;</li> <li>• The process and best practices for containment, cause analysis, and corrective action (including 9136);</li> <li>• Product/material configuration, identification, and traceability;</li> <li>• Critical items and key characteristics and explain variation management (9103);</li> <li>• Design, development, verification, and validation processes specific to aerospace;</li> </ul>	

	<ul style="list-style-type: none"> <li>• First article inspection (9102);</li> <li>• Aerospace external provider quality requirements flowdown, approval and control requirements;</li> <li>• The concept and application of human factors including human error, human performance limitations, environment, communication, teamworking, personal integrity, procedures, information, tools and practices;</li> <li>• FOD prevention program requirements (9146);</li> <li>• Material handling and preservation of mechanical and electrical/electronic products;</li> <li>• Nonconforming material system requirements and operation (nonconforming material management);</li> <li>• Application of operational risk management;</li> <li>• The principles of ASD regulatory authority (Civil, Military and Space) requirements, roles and responsibilities, including where to obtain additional information (requirements as applicable to the location where the course is being presented);</li> <li>• The prevention, identification and control of counterfeit/unapproved parts (AS6496, AS6081, AS5553 &amp; AS6174);</li> <li>• The SMS and its application addressing the components, elements, assessment process, hazard identification and risk analysis and the sustainment and continual improvement of aviation safety;</li> <li>• Application of the principle of product safety in aerospace;</li> <li>• Production processes and product verification/validation;</li> <li>• Special processes and the Nadcap accreditation program; and</li> <li>• Sampling inspection/testing requirements and limitations (9138).</li> </ul>	
Criteria for Examination and/or Assessment	<p>Written open-book examination, set by the TP to validate the knowledge gained, with a minimum examination score of 70%.</p> <p><i>Note: A candidate may take the examination without any/all modules being completed at the discretion of the TP. This decision should take into consideration the candidates knowledge attained through work experience or other sources.</i></p>	
Course Output	<ul style="list-style-type: none"> <li>• Certificate of successful completion, indicating the examination criteria has been met; or</li> <li>• Certificate of attendance (at the discretion of the TP), indicating the examination criteria has not been met; however attendance and participation has been acceptable throughout the course.</li> </ul>	
Instructor Competency and Qualification	<p style="text-align: center;"><u>Lead Instructor</u></p> <ul style="list-style-type: none"> <li>• Knowledge of current Aerospace Quality Management System (AQMS) standards and ASD practices; and</li> <li>• Training Provider Approval Body (TPAB) instructor qualification approval.</li> </ul>	<p style="text-align: center;"><u>Support Instructor(s)</u></p> <ul style="list-style-type: none"> <li>• Knowledge of current AQMS standards and ASD practices; and</li> <li>• TP instructor qualification approval.</li> </ul> <p><i>Note: Support instructor(s) are appointed by the TP as a minimum when the class size exceeds 12.</i></p>
Course/ Assessment Approval Requirements	<p>Course content and delivery methods (plus any subsequent change) requires approval by an OASIS registered TPAB.</p>	