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Interested committees:

Title: Draft BS EN 9139 Aerospace Series - Quality Management Systems - Development of Process-Based Bodies of Knowledge

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Introduction

This draft standard is based on European discussions in which the UK has taken an active part. Your comments on this draft are welcome and will assist in the preparation of the consequent British Standard. Comment is particularly welcome on national, legislative or similar deviations that may be necessary.

Even if this draft standard is not approved by the UK, if it receives the necessary support in Europe, the UK will be obliged to publish the official English Language text unchanged as a British Standard and to withdraw any conflicting standard.

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Please indicate whether you consider the UK should submit a negative (with reasons) or positive vote on this draft.

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Date: xx/xx/20xx	Document: ISO/DIS xxxx
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1	2	(3)	4	5	(6)	(7)
MB	Clause No./ Subclause No./Annex (e.g. 3.1)	Paragraph/ Figure/ Table/Note	Type of comment	Comment (justification for change) by the MB	Proposed change by the MB	Secretariat observations on each comment submitted
	3.1	Definition 1	ed	Definition is ambiguous and needs clarifying.	Amend to read '...so that the mains connector to which no connection...'	
	6.4	Paragraph 2	te	The use of the UV photometer as an alternative cannot be supported as serious problems have been encountered in its use in the UK.	Delete reference to UV photometer.	

AEROSPACE STANDARD	9139	
	Draft 12 April 2014 Technically equivalent writings published in all IAQG sectors.	
Development of Process-Based Bodies of Knowledge		

RATIONALE

This standard promotes a common and robust methodology for professional knowledge and skill identification that facilitates the development and sustainment of defined Quality profession Bodies of Knowledge (BoKs) within the aviation, space, and defense industry to satisfy the needs of assigned professionals and their respective organizations.

FOREWORD

The aviation, space, and defense industry established the International Aerospace Quality Group (IAQG) for the purpose of achieving significant improvements in quality and safety, and reductions in cost throughout the value stream. This organization includes representation from companies in the Americas, Asia/Pacific, and Europe. This international standard has been prepared by the IAQG.

The globalization of the industry and the diversity of regional and national requirements and expectations necessitate the identification and definition of skills and knowledge requirements for Quality professionals be achieved in a standard way to provide for the movement of these professionals from country to country while maintaining a proficient level of knowledge. This will benefit the industry by making the Quality professional a global asset. This standard ensures that BoKs developed for the aviation, space, and defense industry and recognized by the IAQG as being representative of the required Quality profession are readily available within the industry.

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1. SCOPE

1.1 General

Industries, organizations, and professions are reliant upon a community of competent people and individuals that possess relevant skills and knowledge for their scope of responsibility. Traditional methods of defining requisite knowledge and skills have been based on job analysis methodologies and through the development of Subject Matter Expert (SME) BoKs. While job analysis methodologies may suffice at a micro-level, they offer little value to the profession and industrial communities. Furthermore, SME developed BoKs are inherently limited to the knowledge and experience by the individuals serving as SMEs.

This standard defines a Process-Based Body of Knowledge (PBBok) methodology that combines the objective evaluation of process mapping, measurement analysis of Bloom's taxonomy (or equivalent process), and validation by SMEs. It also includes requirements for on-going maintenance and long-term sustainment of IAQG-recognized BoKs.

This methodology is based on the recognition that knowledge within an organization and industry is dynamic and ever changing. It is therefore vitally important that a BoK and thereby the competence of people, remain relevant and accurate. The PBBok model (see Figure 1) requires competent individuals to perform process mapping within a set of business processes to identify the associated tasks. Led by a qualified educational professional, the tasks are analyzed, utilizing Bloom's taxonomy (or equivalent process), to elicit the requisite skills and knowledge at the level of proficiency to successfully execute the specific task.

The resulting listing of tasks with measured skills and knowledge is validated by SME panels to ensure accuracy and adequacy. The SME panel review is intended to ensure that any regulatory or industry requirements overlooked during the BoK development are identified. The validated BoK must be controlled to ensure effective alignment to industry needs. To maintain industry relevance, depending on the rate of change within an industry, BoKs shall be subject to reapplication of the PBBok model and updated, as needed.

1.2 Purpose

This standard provides the requirements for developing, validating, and sustaining BoKs for Quality professionals within aviation, space, and defense industry organizations. BoKs developed that meet the requirements of this standard are candidates for IAQG recognition.

It is also the intent of this document to provide a mechanism to address the requirements of ISO 9001 and 9100-series standards (i.e., 9100, 9110, 9120), clause 6.2.2 (Competence, Training and Awareness).