

IAQG 9101:2016 (REV F)

CHANGE OVERVIEW

PREPARED BY THE IAQG 9101 TEAM

16 Oct 2017

The IAQG is a legally incorporated international not for profit association (INPA) with membership from the Americas, Europe and the Asia Pacific Region (Rev. 08-2015)

Presentation Objectives

Part One:

- > Overview of 9101:2016 (Rev F)
 - Team Membership
 - Team Coverage
 - Stakeholders
 - Key Reasons for Change
 - Key Revision Summary
 - Revision Schedule

Part Two:

- ➢ Key Revision Detail
 - 9101:2016 (Rev F) Standard

Part Three:

- Key Revision Detail
 - 9101:2016 (Rev F) Forms



Part One

Overview of 9101:2016 (Rev F)



The IAQG is a legally incorporated international not for profit association (INPA) with membership from the Americas, Europe and the Asia Pacific Region (Rev. 08-2015)

9101 Team Membership



9101 Team Coverage

>15 members on the 9101 team representing:

- Americas, Europe, and Asia-Pacific IAQG sectors
- 8 IAQG member companies
- 6 different countries
- 6 Certification Body members
- 1 dedicated scribe



9101 Stakeholders

- > Aviation, Space and Defense supply chain
- > IAQG member companies
- IAQG community and working groups
- Accreditation and Certification Bodies
- AQMS auditors
- > Aviation, Space and Defense authorities



9101 Key Reasons for Change

- Publication of ISO17021-1:2015, ISO9001:2015 and 9100series:2016 standards
- > FAQs arising from 9101:2014 (Rev E)
- > OASIS feedback requests
- Stakeholder feedback
- > Lessons learned from OPMT oversight of CB audit reports
- Support of the OASIS Next Generation (NextGen) project



Key Revision Summary

- Incorporated updated requirements and revised terminology from new revisions of ISO9001:2015, ISO17021-1:2015 and 9100-series:2016 standards
- Changed PEAR application from previous 9100-series clause 7 (Product Realization) to new 9100-series clause 8 (Operation)
- Changed process effectiveness levels from 4 to 5 and simplified Process Evaluation Matrix (PEM) definitions
- Clarified raising of NCRs in relation to nonconformities
- Audit approaches moved from the 9101 standard into Auditor Guidance Material



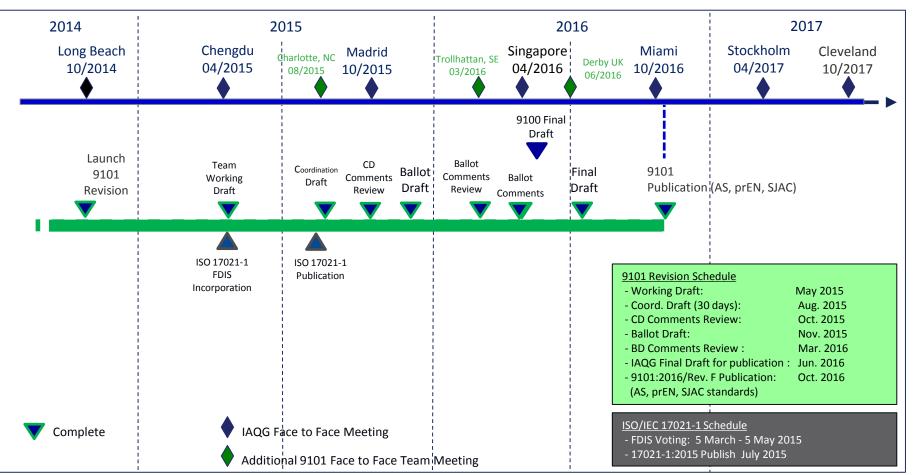
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Key Revision Summary continued...

- Simplified the content of 9101 clauses relating to Stage 1 audit to align with changes to Form 1
- Simplified/clarified Form entries and instructions to support audit reporting using OASIS NextGen



9101:2016 Revision Schedule



Part Two

Key Revision Detail 9101:2016 (Rev F) Standard



The IAQG is a legally incorporated international not for profit association (INPA) with membership from the Americas, Europe and the Asia Pacific Region (Rev. 08-2015)

- Updated Major / Minor nonconformity definitions (clauses 3.3 and 3.4)
 - ISO17021-1:2015 definitions have been linked as a requirement
 - Additional 9101 definitions continue to be included
- > Rationale:
 - Definitions rationalized to include each respective definition from ISO17021-1



Removed 'Audit Approaches' [9101:2014 (Rev E) clause 4.1.2]

- Requirements for using specific 'Audit Approaches' moved into updated "Evaluation Guidance Material".
- Requirements for conducting an audit of Special Processes has been moved to clause 4.2.2.4.1

≻Rationale:

- To build upon the maturity developed by auditors in their approach towards conducting process based audits, and to provide additional flexibility in the audit approach
- Special process audit requirements was part of 'audit approaches' and since those have been moved into guidance material the need to retain specific requirements has been relocated

- Clarified audit reporting requirements (clause 4.1.2)
 - Updated to allow the recording of process information into one QMS Process Matrix Report
 - Table 1 updated to align Special audit reporting with other audit phases
 - Note added to Table 1 to provide guidance on the use of Forms 2 and 3 for Special audits

> Rationale:

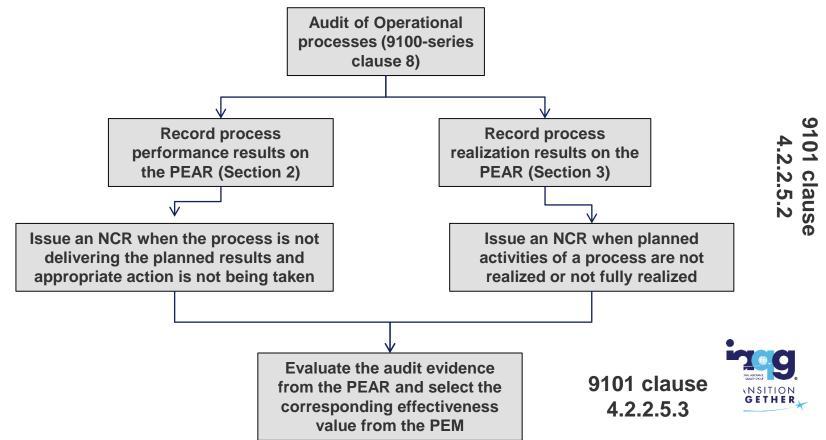
- To provide more flexibility when common processes exist across multiple sites, campus, several sites or complex organization
- To provide a more unified audit reporting approach for all audit phases
- Note added to show that the reason for a special audit (clause 4.3.6) may have an impact on the use of Forms 2 and 3

- Clarified the issuing of NCRs relating to Operational processes (9100-series clause 8):
 - Process Results (clause 4.2.2.5.1):
 - "The audit team shall issue an NCR against the relevant 9100-series standard clause when the process is not delivering the planned results and appropriate action is not being taken"
 - Process Realization (clause 4.2.2.5.2):
 - "The audit team shall issue an NCR against the relevant 9100-series standard clause when planned activities of a process are not realized, or not fully realized"

➢Rationale:

 To emphasize the requirement when to issue NCRs in relation to Process Results and Process Realization

.....see diagram on next page



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9101 clause 4.2.2.5.1

Audit findings and resultant effectiveness level



Reminuer.....

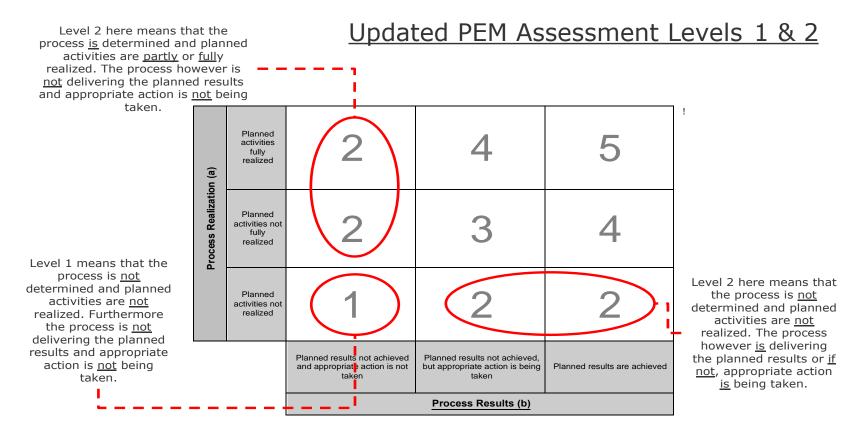
The process effectiveness level is determined from the audit results (conformity and nonconformity)

- > Updated PEM (clause 4.2.2.5.3 Table 3)
 - Simplified Process Realization wording "defined and implemented" becomes "determined"
 - Assessment levels revised from 4 to 5 and redistributed within the matrix

Rationale:

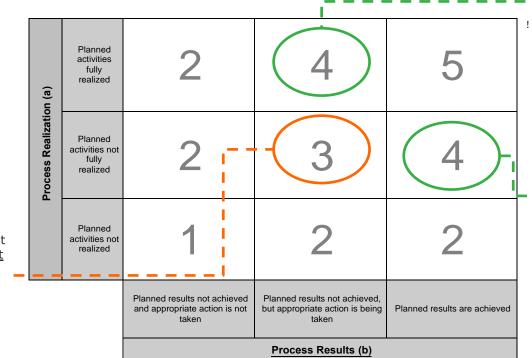
- To align the text with 9100-series terminology
- To provide more balance relating to the effectiveness result
- To improve the visual representation of process risk





Updated PEM Assessment Levels 3 & 4

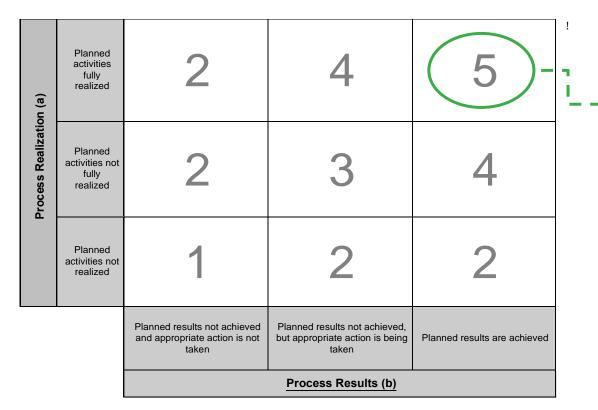
Level 4 here means that the process <u>is</u> determined and planned activities are <u>fully</u> realized. The process however is <u>not</u> delivering the planned results <u>but</u> appropriate action <u>is</u> being taken.



Level 4 here means that the process is determined but planned activities are <u>not</u> fully realized. The process however <u>is</u> delivering the planned results.

Level 3 means that the process <u>is</u> determined but planned activities are <u>not</u> fully realized. The process however is <u>not</u> delivering the planned results <u>but</u> appropriate action is being taken.

Updated PEM Assessment Level 5



Level 5 means that the process <u>is</u> determined and planned activities are <u>fully</u> realized. Furthermore the process <u>is</u> delivering the planned results.

Clarified the requirement for the audit team leader to provide the organization with applicable NCR(s) and PEAR(s) <u>associated with</u> <u>those NCRs</u> (clause 4.2.2.7)

> Rationale:

 To show that only PEARs associated with the respective NCR(s) need to be provided at the closing meeting



Removed the requirement to issue a separate audit report for integrated audits (clause 4.2.3)

> Rationale:

- Allow a single report for integrated audits by indicating Yes/No on Forms 5 and 6
- The requirement for separate reports for a combined audit is retained in accordance with IAQG OPMT ICOP Resolutions Log #105



New requirement to verify the effectiveness of corrective actions taken for nonconformities (if applicable) identified during the previous audit (clauses 4.3.4 and 4.3.5)

≻Rationale:

 To strengthen the verification of corrective action effectiveness during subsequent audits (if applicable) and to align with a new requirement in ISO17021-1 clause 9.4.8.2 r



- Clarified the reasons for conducting a Special Audit (clause 4.3.6 a & b)
 - An organization's request to revise their existing:
 - Certification scope
 - Certification structure
 - Number of site(s) and/or location(s)
 - Transfer of certification from one CB to another (see 9104/1 clause 8.8)
- > Rationale:
 - To accommodate other reasons for conducting a Special Audit, in particular an increase or reduction to the certification scope, certification structure, number of sites or number of locations



Part Three

Key Revision Detail 9101:2016 (Rev F) Forms



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> Form 1 (Stage 1 Audit Report):

- "Exclusions" box changed to "Requirements determined as not applicable", "Justification" box added and "Quality Manual" changed to "QMS Documented Information"
- "Key Requirements" replaced with "Confirmation of Requirements" and now includes 9100-series clause numbers & titles, reference to documented information and "Yes/No" indicator
- "Key Information" reduced in scope and renamed "Other Information"
- Removed "Website" and "Subsidiary of" boxes
- NOTE added to instructions to allow the use of attachments

Form 1 (Stage 1 Audit Report) continued:

- Disclaimer statement added
- ≻Rationale:
 - To align with updated 9101 & ISO17021-1 requirements and 9100-series clauses and terminology
 - To provide more consistency when confirming requirements against the 9100-series standards
 - To support OASIS NextGen



Form 2 (QMS Process Matrix Report):

- 9100-series clause numbers & titles changed
- Clarified when "N/A" and 'empty boxes' can be utilized in populating the matrix
- Changed to accommodate Summary of Objective Evidence for 9100-series clauses 4,5,6,7,9 and 10
- Changed to accommodate reporting (5) PEAR levels
- Changed to identify common process application across multiple sites, campus, several sites or complex organizations
- NOTE added to instructions to allow the use of attachments

.....continued

Form 2 (QMS Process Matrix Report) continued:

- Disclaimer statement added
- > Rationale:
 - To align with updated 9101 & ISO17021-1 requirements and 9100-series clauses and terminology
 - To allow one report when common processes exist across multiple sites, campus, several sites or complex organizations
 - To support OASIS NextGen



Form 3 (PEAR):

- Added the box "Responsibility/Authority" for the process
- Assessment levels revised from 4 to 5 and redistributed
- Updated the PEM image
- NOTE added to instructions to allow the use of attachments
- Disclaimer statement added

≻Rationale:

- To align with updated 9101 & ISO17021-1 requirements and 9100-series terminology
- To provide more balance in relation to the effectiveness result
- To help with PEAR level determination when using the Form
- To support OASIS NextGen

> Form 4 (NCR):

- Added "Cause Code" box
- Deleted "Signature" boxes
- Instructions updated to include Annex A (List of Cause Codes)
- NOTE added to instructions allowing the use of attachments
- Disclaimer statement added

≻Rationale:

- To align with updated ISO17021-1 requirements
- To accommodate the allocation of a suitable Cause Code from the IAQG listing in order to support future data collection.
- To support OASIS NextGen

> Form 5 (Audit Report):

- Audit type expanded to include reason for "Special Audit"
- Removed "Website" and "Subsidiary of" boxes
- Box added to signify Integrated Audit (Yes/No)
- "Exclusions" box changed to "Requirements determined as not applicable", "Justification" box added and "Quality Manual" changed to "QMS Documented Information"
- Changed to accommodate reporting (5) PEAR levels
- Inclusion of a statement to verify the effectiveness of corrective actions taken for nonconformities identified during the previous audit

.....continued

Form 5 (Audit Report) continued:

- Clarified statement for the audit team leader's certification recommendation
- Deleted "Signature" boxes
- NOTE added to instructions allowing the use of attachments
- Disclaimer statement added

> Rationale:

- To align with updated 9101 & ISO17021-1 requirements and 9100-series terminology
- To provide more consistency when recommending the certification decision
- To support OASIS NextGen

Form 6 (Supplemental Audit Report):

- Audit type expanded to include reason for "Special Audit"
- Changed to accommodate reporting (5) PEAR levels
- Deleted "Signature" boxes
- Box added to signify Integrated Audit (Yes/No)
- NOTE added to instructions to allow the use of attachments
- Disclaimer statement added

Rationale:

- To align with updated 9101 & ISO17021-1 requirements and 9100-series terminology
- To support OASIS NextGen

> Forms continue to be referenced in Appendix B

 Electronic versions of the Forms will remain accessible via the IAQG website together with supporting instructions







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