

Standard Practice for Compliance Audits to ASTM Standards on Light Sport Aircraft¹

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1. Scope

- 1.1 This standard practice establishes the minimum set of requirements for auditing programs, methods, and systems, the responsibilities for all parties involved, and qualifications for entities conducting audits against ASTM standards on Light Sport Aircraft.
- 1.2 This standard provides requirements to enable consistent and structured examination of objective evidence for compliance that is beneficial for the LSA industry and its consumers. It is the intent of this standard to provide the necessary minimum requirements for organizations to develop audit programs and procedures.
- 1.3 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use.

2. Terminology

- 2.1 Definitions:
- 2.1.1 *action plan*—an audited entity's plan to address audit findings that describes response actions, parties responsible for their execution, and expected completion dates.
- 2.1.2 *audit* (*compliance audit*)—a systematic, documented, and objective review of an audited entity to evaluate its compliance status relative to audit criteria.
- 2.1.3 *audit criteria*—the set of requirements that are applicable to the audited entity and specified in the audit scope. Examples may include standards, regulations, and laws.
- 2.1.4 *audit data*—information obtained during an audit to support audit findings.
- 2.1.5 *audit finding*—a statement of audited entity conditions at the time of the audit by evaluation against audit criteria. Audit findings shall be based upon verifiable audit data and may be either positive or negative with respect to audit criteria.
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- 2.1.6 *audit objective(s)*—broad statement(s) of what the audit intends to accomplish.
 - 2.1.7 audit plan—documentation that describes the audit.
- 2.1.8 *audit program*—an auditing entity's overarching collection of approaches, methods, systems, etc. toward the goal of achieving an audit objective(s) and in compliance with this standard.
- 2.1.9 *audit protocol*—a method designed to collect information to support the audit objective(s) based upon audit criteria.
 - 2.1.10 audit purpose—reason for the audit.
- 2.1.11 *audit report*—a written summary of audit findings that is objective, clear, concise, constructive, and timely.
- 2.1.12 *audit scope*—a description of what is to be audited. The audit scope shall include a description of the period under review, the audited entity, and the audit criteria.
- 2.1.13 *audit team*—one or more auditors responsible for conducting an audit. The audit team may be supported by technical experts and auditors-in-training.
- 2.1.14 *audited entity*—a facility, organization, or part thereof, that is the subject of an audit.
- 2.1.15 *auditing entity*—the organization that provides the audit program and authorizes, or initiates the audit process. The auditing entity may be internal or external to the audited entity.
 - 2.1.16 auditor—a person qualified to conduct an audit.
- 2.1.17 *independence*—a condition characterized by organizational standing where an auditor is free to conduct an audit without being controlled or influenced by others.
- 2.1.18 *lead auditor*—an auditor designated to lead and manage the audit.
- 2.1.19 *objectivity*—a condition characterized by the absence of bias, influences, and conflicts of interest that affect or have the potential to compromise audit findings.
- 2.1.20 *open issues*—potential audit findings that cannot be verified or resolved without additional information.
- 2.1.21 *period under review*—the time interval over which conditions at the audited entity are evaluated against audit criteria.

- 2.1.22 *records*—documentation and other forms of recorded information.
- 2.1.23 *working papers*—records collected and developed by an auditor through the use of audit protocols.

3. Significance and Use

- 3.1 The purpose of this standard practice is to provide the minimum requirements for the conduct of compliance audits.
- 3.2 The intended use of standard is to provide a basis for an internal or external entity to develop an audit program. An audit program defines specific requirements for the execution of audits for a particular objective. An example of an audit program would be an external (third party) audit of LSA manufacturer's quality assurance system.
- 3.3 Compliance to this standard would insure that audit programs and those who develop and execute them are following a consensus set of minimum requirements.
- 3.4 This standard does not mandate either internal or external audits.
 - 3.5 An auditing entity cannot request or approve an audit.
- 3.6 Other Audit Criteria—Other audit criteria may be included in the audit scope if specified in the audit plan. Examples include safety, technical, operational, and management requirements. Items that are outside the scope of auditable criteria may be submitted as observations for possible resolution. However these are not binding and are not mandatory.
- 3.7 Additional Services—Additional services are outside the scope of an audit objective. Examples of such services are consultation to resolve negative or open findings or any other service where the auditing entity conducts an activity other than an audit for the audited entity.
- 3.8 Compliance Assurance—An audit is only an indicator of the compliance health of the facility and/or organization during only the period under review and therefore has limited compliance assurance and is not assumed to be exhaustive.
- 3.9 Level of Review is Variable—The audit scope may vary to meet different audit objectives. For example, the audit scope may include only selected audit criteria, selected period under review, or selected portions of a facility or organization.

4. Audit Program

- 4.1 The auditing entity shall develop and document an audit program that conforms to this practice prior to carrying out an audit. The audit program and its documentation is internal to the auditing entity.
- 4.2 The audit program shall specify an audit purpose and audit objective(s).
- 4.3 The audit program shall specify the procedures and guidelines that will be used to conduct the audit process in Section 5, including target timelines. As practical, the program should also provide drafts of audit-specific information such as audit scope, audit plan, and audit reports.
- 4.4 The audit program shall contain requirements for record management as specified in Section 10.

- 4.5 The audit program shall define criteria for audit status levels. Examples of audit status include pass/fail, open/closed, or complete/incomplete.
- 4.6 The audit program shall include auditor qualifications as specified in Section 11.
- 4.7 The audit program shall define guidelines and procedures for identifying and reporting any compromise of auditor qualifications.

5. Audit Process

- 5.1 An audit shall at a minimum involve three activities. These are: preparation activities, execution activities, and reporting activities.
- 5.2 Preparation—Preparation activities occur before execution and are intended to plan, organize, and communicate the execution and reporting activities for a specific audit. The result of the preparation activities is the audit plan (Section 6). The audit plan shall be agreed upon between the auditor and the audited entity in a timely manner prior to the execution of an audit.
- 5.3 Execution—The audit plan is carried out between the audit team and audited entity during this activity. These activities may occur remotely and/or during an on-site visit, as specified by the audit plan. Execution activities shall include communication activities Section 7 and data gathering activities Section 8.
- 5.4 Reporting—Reporting activities occur after audit execution between the auditor and audited entity. Reporting deliverables and milestones occur following execution; however, preparatory work may occur at other times during the process. Reporting shall include documentation activities specified in Section 9.

6. Audit Plan

- 6.1 An audit plan shall contain the following:
- 6.1.1 The audit objective;
- 6.1.2 Audit scope;
- 6.1.3 Identities of the auditing entity, audited entity, and audit team;
 - 6.1.4 Audit schedule;
- 6.1.5 Record management and confidentiality procedures; and
 - 6.1.6 Logistics.
- 6.2 Background Information—Background information should be used as appropriate to develop the audit plan or refine an existing audit plan. Background information may consist of records, process and site descriptions, operation and maintenance manuals, compliance inspection reports, previous audit reports, notices of violations, and other relevant information.
- 6.3 Schedule—A schedule of audit activities shall be developed and documented. The schedule shall clearly document the expected timeline between the auditing and audited entity with respect to audit execution, reporting audit findings, and action plans as applicable.