

ASN No 022 Ref. No: ASN/AWS/2002/012

## Department of Civil Aviation – Sri Lanka . **Aviation Safety Notice**

**Subject**: Certification of Aircraft Welders

NATURE: ADVISORY

**Status:** New

Issue No.: 01

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OBJECTIVE: TO INFORM OPERATORS PROCEDURES TO BE ADOPTED TO APPROVE AIRCRAFT WELDERS

**Background** Published information is not available on Certification of Aircraft Welders

**Recipients**: All Opeartors

**Effective Date**: 08. 04.2002

Validity: Until further notice

**Contact person:** Airworthiness Division of the Department of Civil Aviation

**Availability**: A copy of this document is available for reference at the Communication Centre, Department of

Civil Aviation, 64, Galle Road, Colombo 3.

## **CONCEPT**

. **INTRODUCTION** This ASN is applicable to persons who weld metallic parts which are essential to the airw aircraft where the making of a sound joint by oxy-acetylene or arc-fusion welding techniques depends largely on the con operator. Welders will be approved in accordance with the requirements of this ASN.

NOTE: For the purposes of this ASN, the term arc-fusion welding includes:-

- (a) Manual metal-arc (MMA) welding,
- (b) Metal inert gas (MIG) welding, and
- (c) Tungsten inert gas (TIG) welding
- 2. GRANT OF APPROVAL The procedures for the issue and control of welding approval are dependent upon the ciremployment of the welder. Where a welder is in the employ of an Organisation approved by the DCA the DCA will direct approval of the welder. The Organisation is required to establish its own effective system for their control The system include records of all sample tests (and results) and a ready means of establishing the current qualification welders employed. All records shall be available to the DCA upon request, including details relating to welders who have employ of the Organisation. No essential records, e.g. Approval Cards and Test Reports shall be destroyed without the ped DCA. A description of the control system shall be included in the Company Maintenance Control Manual required by DCA approval of the system will be indicated by inclusion of the control of welders in the Schedule of Approval.
- 2.1 The procedures for obtaining welder's approval are as follows:-
  - (a) Where the welder is employed by a DCA approved Organization, such Organization shall make arrangements to prepare and weld an appropriate test sample(s) to a DCA approved Test House for examination tog particulars of the welder concerned, materials used, details of any post-welding treatment (e.g. heat treatment), and identification marks on the test sample(s). Upon receipt of an Approved Test Certificate from indicating successful test results for the sample(s), the organization may grant approval to the welder. Only welder be employed on work of significance to airworthiness.
  - (b) In the event of a welder leaving the employ of an Organisation approved by the DCA, the welder may requestrant a Welder's Approval Certificate for the welding approvals held while in the employ of that Organisation

noted that grant of such an approval, is conditional upon the availability of evidence of prior qualification s can not accept responsibility for a previous employer's failure or inability to provide the evidence.

## 3. MAINTENANCE OF APPROVAL

- 3.1 The validity of a welder's approval may be maintained by the procedures detailed in paragraphs 3.1.1. Should appring a different combination (see supplement) than that shown on the Welder's Approval Certificate or documents, the grant of approval as prescribed in paragraph 2.1 must be followed.
  - 3.1.1 Where the welder is employed by an Organisation approved by the DCA, the approved Organisation sh periodic check examinations of the welder's competency. At each periodic check examination an appropriate sample and such other test samples to be decided by the approved Organisation shall be completed, by using material used in standard work practices appropriate to the maintenance of approval. For welders holding approvance than one configuration (i.e. sheet to sheet, sheet to tube) it will normally only be necessary to provious sample provided that the DCA is satisfied it is representative of the welder's main day-to-day work. Howe initial test sample will be required for each technique and material group specified in the welder's approval. Test samples shall be sent to a DCA approved Test House under arrangements made by the approved Organisa results of this examination are satisfactory the Welder's Approval document shall be endorsed by the approved Complete records of the periodical check examinations shall be kept at the Organisation. The check rest rewelder must indicate the date for the next check test in advance so that the test can be completed and the within the period of approval of the welder. All records shall be held available to the DCA.
    - (a) The maximum period between check examinations shall be 12 months. Organisations shall arrange test within the period of validity of the previous test period to ensure continuity of approval.
    - (b) If the test results are unsatisfactory the approved Organisation shall arrange for the check example repeated immediately and the samples sent to an approved Test House for examination. During the period check test which proved unsatisfactory and the result of the next check test, the welder shall not weld presential to the airworthiness of an aircraft. If the test results are again unsatisfactory the welder's approved until further training and/or experience has been gained to the satisfaction of the approved Organisation of the approved Organisation shall arrange for the check example of the check example of the check example of the period check test, the welder shall not weld present a support of the approved Organisation of
    - 3.2 The DCA may select samples of an approved welder's work at any time for additional check examination p

## Lal Liyanaarachchi Director General of Civil Aviation