



# Advisory Circular

**Subject: Trade Standards for Personnel Working in Approved Maintenance Organizations**

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## 1.0 INTRODUCTION

- 1) This Advisory Circular (AC) is provided for information and guidance purposes. It describes an example of an acceptable means, but not the only means, of demonstrating compliance with regulations and standards. This AC on its own does not change, create, amend or permit deviations from regulatory requirements, nor does it establish minimum standards.

### 1.1 Purpose

- 1) The purpose of this AC is to advise the Canadian aviation maintenance industry of the trade standards that are recognized by Transport Canada Civil Aviation (TCCA) for technical personnel working in Approved Maintenance Organizations (AMOs).

### 1.2 Applicability

- 1) This document applies to the Canadian aviation maintenance industry, to individuals and organizations when they are exercising privileges granted to them under a Canadian aviation document. This document is also available to the aviation industry and the general public for information purposes.

### 1.3 Description of Changes

- 1) Two changes have been incorporated into this issue. These changes are:
  - a) Appendix A, under the heading of ANSI/AWS D17.1/D17.1M:2010-AMD1 “Fusion welding only” was changed to “Specification for Fusion Welding for Aerospace Applications”; and
  - b) Appendix A, under the heading of Canadian Council for Aviation & Aerospace (CCAA), the information found in Aviation Welding Technician has been deleted.

## 2.0 REFERENCES AND REQUIREMENTS

### 2.1 Reference Documents

- 1) It is intended that the following reference materials be used in conjunction with this document:
  - a) CAR Part 5 subpart 71—*Aircraft Maintenance Requirements*;
  - b) CAR Part 5 subpart 73— *Approved Maintenance Organizations*;
  - c) CAR Part 5 Airworthiness Manual (AWM) Chapter 566 —*Aircraft Maintenance Engineer (AME) Licensing and Training*;
  - d) CAR Part 5 Standard 571 of the CARs —*Maintenance*;
  - e) CAR Part 5 Standard 573 of the CARs —*Approved Maintenance Organizations*;
  - f) Aerospace Industries Association (AIA) —*National Aerospace Standard —NAS 410 Revision 3*;
  - g) Airlines for America (A4A), (formerly known as Air Transport Association of America Inc.(ATA)) — *ATA Specification 105 Revision 2011.1*;
  - h) American Welding Society —ANSI/AWS D.17.1/D17.1M:2010—*Specification for Fusion Welding for Aerospace Application*;
  - i) Canadian Council for Aviation & Aerospace(CCAA) (formerly known as CAMC) — *Occupational Standards*;

- j) Canadian General Standards Board (CGSB) CAN/CGSB 48.9712-2006/ISO 9712:2005  
—*Non-destructive Testing; Qualification and Certification of Personnel.*

## 2.2 Cancelled Documents

- 1) As of the effective date of this document, the following document is cancelled:
  - a) Airworthiness Notice (AN) C009, Issue 04, 2005-01-26—*Trade Standards for Personnel Working in Approved Maintenance Organizations.*
- 2) By default, it is understood that the publication of a new issue of a document automatically renders any earlier issues of the same document null and void.

## 2.3 Definitions and Abbreviations

- 1) The following **definitions** are used in this document:
  - a) **Aeronautical Product:** means any aircraft, aircraft engine, aircraft propeller, aircraft appliance or part, or the component parts of any of those things including any computer system and software;
  - b) **Certification:** means procedures used by the certification body to confirm that the qualification requirements for a method, level and sector have been fulfilled, leading to the issuing of a certificate;
  - c) **Maintenance:** means the overhaul, repair, required inspection or modification of an aeronautical product, or the removal of a component from its installation on an aeronautical product, but does not include:
    - a) Elementary work,
    - b) Servicing; or
    - c) Any work performed on an aircraft by the manufacturer prior to the issuance of whichever of the following documents is issued first
      - i. A certificate of airworthiness,
      - ii. A special certificate of airworthiness, or
      - iii. An export airworthiness certificate (maintenance).
- 2) The following **abbreviations** are used in this document:
  - a) **AC** : Advisory Circular;
  - b) **AIA**: Aerospace Industries Association;
  - c) **AME** : Aircraft Maintenance Engineer;
  - d) **AMO** : Approved Maintenance Organization;
  - e) **AN** : Airworthiness Notice;
  - f) **ANSI** : American National Standards Institute;
  - g) **A4A** : Airlines for America, (formerly known as Air Transport Association of America Inc.(ATA));
  - h) **AWM** : Airworthiness Manual;
  - i) **AWS** : American Welding Society;
  - j) **CAR** : Canadian Aviation Regulation;

- k) **CCAA** : Canadian Council for Aviation & Aerospace (formerly CAMC);
- l) **CGSB** : Canadian General Standards Board;
- m) **MPM** : Maintenance Policy Manual;
- n) **NAS** : National Aerospace Standard;
- o) **NDI** : Non Destructive Inspection;
- p) **NDT** : Non Destructive Testing;
- q) **SCA** : Shop Certification Authority;
- r) **TC** : Transport Canada, and
- s) **TCCA** : Transport Canada Civil Aviation.

### **3.0 BACKGROUND**

- 1) This Advisory Circular (AC) was developed to update recognized national and international trade standards for individuals working for or seeking employment in an Approved Maintenance Organization (AMO). These standards are current at the time of publication of this AC.
- 2) This AC has been developed to assist AMO's to satisfy the regulatory requirements as defined in CAR 573.06 by demonstrating compliance with Transport Canada Civil Aviation (TCCA) recognized trade standards. To ensure that AMO's select standards that fully meet TCCA requirements, this AC lists the current recognized trade standards available for use by an AMO.
- 3) The TCCA recognized trade standards found in Appendix A can be utilized as one means of demonstrating compliance with the technical training requirements of Standard 573.06.

### **4.0 IMPLEMENTATION**

#### **4.1 Initial implementation of a trade standard**

- a) AMO's can utilize the trade standards found in Appendix A as one means of satisfying the technical training requirements of Standard 573.06 as it pertains to training, qualifying and authorizing of personnel other than Aircraft Maintenance Engineers (AME's).
- b) To accomplish this, the AMO shall incorporate the respective trade standards in its entirety as part of the training program in the organization's Maintenance Policy Manual (MPM).
- c) Once part of the training program, the organization will be able to utilize and implement this training for employees as applicable.
- d) Trained employees will be able to perform duties as it pertains to the respective trade standards within the organization.

#### **4.2 Individuals who currently hold accreditation of a trade standard**

- a) Organizations can employ individuals who hold accreditation in any of the trade standards found in Appendix A and authorize these persons without further technical training.
- b) If an organization employs an already accredited individual, it is expected that the organization will have already amended the training program of their MPM to comply with

the Standard 573.06 requirements before said individual commences duties pertaining to their trade.

#### **4.3 AME and Maintenance Release requirements**

- a) Technical training, qualifying and authorizing of personnel in accordance with the respective trade standard within an AMO is linked exclusively to work performance and does not extend to the maintenance release of aeronautical products. This privilege will continue to be exercised by an appropriately rated and authorized AME or in the case of off aircraft work a person that has been authorized to sign in accordance with the MPM of an AMO, for example a Shop Certification Authority (SCA).
- b) Recognition of the trade standards identified in this AC does not relate to the requirements for issue of an AME licence. Individuals seeking to obtain an AME licence must meet the requirements of STD 566, Division I.

#### **5.0 INFORMATION MANAGEMENT**

- 1) Not applicable.

#### **6.0 DOCUMENT HISTORY**

- 1) This document, formerly Airworthiness Notice (AN) C009, Issue 04, has been reissued as AC 573-003.

#### **7.0 CONTACT OFFICE**

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[original signed by Arlo Speer for]

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*Transport Canada documents or intranet pages mentioned in this document are available upon request through the Contact Office.*

**APPENDIX A — TCCA ACCEPTED TRADE STANDARDS FOR PERSONNEL WORKING IN APPROVED MAINTENANCE ORGANIZATIONS**

The following standards may be referenced and used as one means of demonstrating compliance with the technical training requirements of CAR 573.06 and Standard 573.06 for personnel to perform work within an AMO.

**Note:** Revision numbers and dates are correct at the time of publication of this AC, but should be verified before use.

*(The structure of the table below is as follows: 1) the organization that has control of the standard can be found in the first line, 2) the third line represents the recognized national and international trade standard and 3) the fourth line gives a brief breakdown of what the standard entails.)*

<b>Aerospace Industries Association (AIA)</b>
<b>NAS 410 Revision 3</b>
NDT: Levels 1, 2 and 3  a) Eddy current b) Liquid penetrant c) Magnetic particle d) Radiography e) Ultrasonic methods

<b>Airlines for America (A4A)</b>
<b>ATA Specification 105 Revision 2011.1</b>
NDT: Levels 1,2 and 3  a) Eddy current b) Liquid penetrant c) Magnetic particle d) Radiography e) Ultrasonic methods

<b>Canadian General Standards Board (CGSB)</b>
<b>CAN/CGSB 48.9712-2006/ISO 9712:2005</b>
Levels 1, 2 and 3  NDT: a) Liquid penetrant, b) Magnetic particle c) Ultrasonic methods d) Eddy current e) Radiography

<b>American Welding Society (AWS)</b>
<b>ANSI/AWS D17.1/D17.1M:2010-AMD1</b>
Specification for Fusion Welding for Aerospace Applications

*(The structure of the table below is as follows: 1) the organization that has control of the standard can be found in the first line, 2) the second line represents the title of the recognized national trade standard and 3) the third line gives the abbreviation for the applicable standard.)*

<b>Canadian Council for Aviation &amp; Aerospace (CCAA)</b>	
<i>TITLE</i>	<i>ABBREVIATIONS FOR APPLICABLE STANDARD</i>
Aerospace Materials Specialist	ASM
Aircraft Gas Turbine Engine Repair & Overhaul Technician	GTE
Aircraft Propeller System Technician	PST
Aircraft Reciprocating Engine Technician	RET
Aircraft Structures Technician	STU
Aviation Electrical/ Electronic/ Instrument Component Technician	ELE
Aviation Interior Technician	INT
Aviation Machinist	MAC
Aviation Mechanical Component Technician	MEC

Trade Standards for Personnel Working in Approved Maintenance Organizations

Aviation Painter	PNT
Aviation Special Processes Technician	SPC
Aviation Welding Technician	WLD
Aviation Non Destructive Inspection Technician: a) Liquid penetrant, b) Magnetic particle c) Ultrasonic methods d) Eddy current e) Radiography	NDI  Levels 1 and 2