

ADVISORY CIRCULAR

Aircraft Airworthiness Department of CAAC

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CAAC Airworthiness Training Catalogue

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CAAC Airworthiness Training Catalogue

1. Purpose

This advisory circular is formulated as the complement of *Training Management* Procedure for Airworthiness Certification Personnel(AP-00-01),

which provides qualified airworthiness training course Catalogue for Airworthiness Inspectors, Engineers, Flight Test Pilot, Airworthiness Designated Representative, Designated Organization Representative (DOR) and DOR management personnel, and relevant professional people who take part in the activity of aircraft airworthiness certification, It also can be recommended as training courses for people who work in aviation industry unit.

2. Applicability

This advisory circular provides all the training courses which had been reviewed by the Airworthiness Training Review Committee before December 27th, 2012. Starting from January 1st, 2013. The training organization which add or revise training courses should obey the rules of this advisory circular.

3. Background

In order to improve airworthiness certification personnel's professional competence and understanding of airworthiness regulation, procedures and technology, the Aircraft Airworthiness Certification Department of CAAC (short for AAD) offers a series of training and seminars by organizing universities of aerospace at domestic and abroad ,airworthiness authorities and aerospace industry experts.

In order to standardize manage training courses, AAD issues a series of airworthiness management procedure for training, and provides policy guidance for training course build and management .Include "*Training Management Procedure for Airworthiness Certification Personnel*" (AP-00-01) provides principles and requirements for building and managing training courses. "*Training Plan For Aerospace Engineers, Flight Test Pilots and Program Support Specialists*" (*AP-21-35*) describes a training profile for each specialty function identifying training courses that are essential for personnel assuming a position in the functional specialty". CAAC Airworthiness Training Catalogue" (AC-00-02) provides a list of qualified airworthiness training courses for airworthiness certification personnel.

Since the second revision of "CAAC Airworthiness Training Catalogue" (AC-00-02R1) was issued on May 27th, 2009. The management of airworthiness training had been deeply development, standardized, and some unit had been adjusting the responsibility. In addition, "*Training Management Procedure for Airworthiness Certification Personnel*" (AP-00-01) and "*Training Plan For Aerospace Engineers, Flight Test Pilots and Program Support Specialists*" (*AP-21-35*) have been amended, so this advisory circular should been revision to meet the airworthiness training development.

In principle, this advisory circular is revised once a year, adding or cancelling courses according to the review reports of courses and revising contents of the procedure of airworthiness training management.

4. Cancellation

The Advisory Circular "CAAC Airworthiness Training Catalogue" (AC-00-AA-2009-02R1 dated on May 27th ,2009)is cancelled since the December 31, 2012.

5. Management of Training Courses

5.1 Category of Training

Two categories of training for airworthiness certification personals: Initial training and on the job training. Both of them contain the requirements of Airworthiness Basic Courses and Professional Courses

5.2 Airworthiness Basic Courses

Civil Aviation Management Institute of China (CAMIC) is responsible for Airworthiness Basic Courses. The courses are reviewed by AAD and listed in the appendix 5 "Airworthiness Regulations Basic Training Courses".

5.3 Airworthiness Professional Courses

The units of airworthiness certification system and universities of aerospace could provide professional training. Applications from those parties or universities should be reviewed according to this advisory circular process, and the Airworthiness Review Committee office (CAST AAI) is responsible for organizing evaluation.

Meanwhile, the divisions of AAD, Airworthiness Review Committee office and authorized training organization should promote the development of professional courses, focus on personnel and training date, and strengthen the

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development of professional training courses.

5.4 Training course ID

Training course ID contains three parts: course code, organization code and serial number of courses, forming an ID with five letters. Taking XYZZZ as an example, X means course code, Y means organization code(1 means CAMIC, 2 means CAUC, 3 means BUAA, 4 means CAFUC, Subsequent code postpone for other training agencies), ZZZ means serial number of courses

Category of Training	Category of Training	Course code
Basic training	Basic training	1Y
Regulation Subject	professional training – Airworthiness summary professional training – Airworthiness regulations	2Y
	professional training – Airworthiness procedure	
	professional training – performance and flight-test	
	professional training – structure and airframe	
	professional training – power plant	
	professional training - mechanical system	
Technical Subject	professional training – electrical and electronic	3Y
reennear Subject	system	51
	professional training – engine	
	professional training – propeller	
	professional training – manufacturing	
	professional training – continuous airworthiness	
Refreshment training	Basic training and professional training	4Y

Form 1—Course Code

6. Course Review Process

6.1 Principles

The course review is qualified by Training Evaluate Committee, and then added into this AC appendix 6 "Catalogue of Airworthiness Professional Training Courses"

6.2 Application

6.2.1 Training organization should submit application to Training Evaluate Committee when it want to add new courses capacity, include course program, course materials, the approved Training Course Evaluation Form (appendix 1) and other supportive materials.

6.2.2 Application teaching the course which listed in the appendix 6, the organization should complete course program as original approved. Or communicate with the approved organization to coordinate the program of course, the unifying program of course should be submitted to Training Evaluate Committee as well as course program and material, the approved Training Course Evaluation Form (appendix 1) and other supportive materials.

6.2.3 If the approved organization wants to amend of authorized courses, it should submit new course program, course materials, the approved program and material, other supportive materials to Training Evaluate Committee. The committee will determine whether it needs to review.

6.2.4 Training Evaluate Committee office (CAST AAI) is authorized by the Committee, and organizes an initial review meeting for the courses once a year. It will determine whether it needs to be reviewed, to be initial evaluated by experts before The Committee review. The evaluating work plan should also be carried out during this meeting. 6.3 Course Evaluation Expert Group

6.3.1 Course evaluation work is been developed by The CAST AAI according to the working plan, The Course Evaluation Expert Group is appointed by CAAC AAD.

6.3.2 Course Evaluation Expert Group includes the followings:

a) CAAC AAD, AAD of Regional Administration, Airworthiness Certification Center;

b) CAST, CAMIC, CAUC, BUAA, and CAFUC;

c) Universities of Aerospace.

6.3.3 If the applying course requires expert evaluation, Division in CAAC AAD choose expert from the group to carry out preliminary evaluation. The expert gives his review comments to CAST AAI in accordance with Appendix 2 "Preliminary Evaluation Report of Professional Courses".

6.4 Course Evaluation

6.4.1 The course evaluation meeting is organized by CAST AAI according to the working plan. Trainer gives a teaching in the meeting and is reviewed by the committee on site.

6.4.2 Review on the basis of: course program, course materials, PPT and teaching skills, the committee and the trainer would have a question and answer activities. If it has expert evaluation report and refer the report. Taking overall factors into consideration, the committee member will give the course a score and fill the appendix 3 "Training Course Evaluation Form".

6.4.3 After discussion, the committee provides assessment conclusions and fillsAppendix 4 "Training Course Evaluation Report"

6.5 Evaluation Outcomes

6.5.1 Course marked as qualified in the "Training Course Evaluation Report", the CAST AAI will add this course in the appendix 6 with information about Course ID and course subject. Training organization will provide training service to airworthiness certification personnel with qualified course program and materials

6.5.2 Course marked with suggestions and issues in the "Training Course Evaluation Report", the training organization should make corrective action based on the report. The committee office will follow up and inspect those issue, After qualified, The course and its ID and subject description will be add into "Catalogue Of Airworthiness Training Courses". Training organization will provide training service to airworthiness certification personnel with revised program and materials.

6.5.3 If the course marked with unqualified, training organization should revise the program and materials, and reapply evaluation.

7. Courses Evaluate Records

Training Evaluate Committee office (CAST AAI) is responsible for the management of courses evaluate records. It should be completed within 10 working days after evaluation. Records should be saved and filed via both electrical data and paper documents for easy reference.

Details are as follows:

- (1) Training Course Application Form
- (2) Preliminary Evaluation Report of Professional Courses(if necessary);
- (3) Training Course Evaluation Form
- (4) Training Course Evaluation Report

8. Supplementary Provision

8.1 This advisory circular shall be interpreted by the Aircraft Airworthiness Certification Department of CAAC.

8.2 The airworthiness training courses catalogue in this advisory circular are updated dynamically based on evaluate result.

Appendix 1 Training Course Application Form

	1		
Name			
Course Title			
Trainer		Training hours	
Contactor		Phone	
Types of avaluator	□ nev	w course, initial appli	cation
Types of evaluate:	□ am	nendment on contents	, reapplication
Description of course:	L		
Submitted materials			
1.□ Course Program		$2.\square$ Course m	aterials
$3.\square$ others			
Statement :			
Hereby we certify responsibility of the		nformation in this fo	form is true and take full
		. . ,	
		Applicant : Position :	
		Date :	

Name		Course Ti	tle	
Trainer		Training h	nours	
	v comments			
2、Recom	mendations for improvement	t		
	· · ·			
Reviewer		Review date		
Phone		E-Mail		

Appendix 2 Preliminary Evaluation Report of Professional Courses

Name			Course Title		
Trainer			Training hours		
Index	Ma	arking criteri	on	Scores	Marks
Course	1. Standard ,meet	the require	ments of training	20	
Program	goals, conform wi	th contents			
	2. Contents, train	ing hours ,c	ase and practical	15	
	process meet	the Trainin	ng Management		
	Procedure for	Airworthine	ess Certification		
	Personnel				
Course	1. cover the require	ements of tra	inees	15	
materials	2. practical and con	mbined with	job function	10	
	3. support airworth	niness certific	cation	10	
РРТ	1. structure format and contents		5		
	2. Words and figures		5		
Trainer	1. Articulate and easy understanding			5	
Teaching	2. Two-way communication		5		
skills 3. Overall control ability of class		SS	5		
	4. Logical and systematic		5		
Guide of marking	program and materials	conform wi PPT presen	th related regulation tation;	18;	
	Teaching skill	Clear mind:			
		Subject, pu	rpose and contents	can be easy	understood
		through presentation.			
		Related information conform with PPT			
ExperienceExperience is scientifiedsharinglearning		is scientific, instru	structive and available for		
		learning			
	Overall	Overall eva	luation of the cours	e	
	evaluation				

Appendix 3 Training Course Evaluation Form

	Q&A	Performance of answering questions
	Total scores	100
comments		
and		
suggestions		

Training Course Evaluation Report

Training Organization: Course Title: Leader of evaluate:

Course Title		Training hours						
Review place		Review date						
Main contents	Main contents of evaluation:							
Evaluate	Name	Duty	Unit					
Group Leader								
Member								
l	↓		<u> </u>					

Main problems	improvement suggestions		

2. Result of evaluate:

Group Leader : (signature)

Month Date Year

Appendix 5 Airworthiness Regulations Basic Training Courses

ID	Course Title	Description	Hours	Organization
11001	Airworthiness Regulations	a) International Civil Aviation Organizations, Conventions, Annexes	72	CAMIC ¹
	Basic Training Courses	and Organization;		
		b) Foreign Civil Aviation Authority Organizations, Airworthiness		
		Regulations and Bilateral Airworthiness Agreement;		
		c) Administrative System of CAAC;		
		d) Regulations system of CAAC;		
		e) Regulations and standard documents on airworthiness certification		
		activities.		
		This course will be mainly face to freshmen, aims to provide the	l	
		necessary basic airworthiness knowledge.		

¹ CAMIC is Civil Aviation Management Institute of China

ID	Course Title	Description	Hours	Organization
22001	Airworthiness Concept and	Origin and Development of Airworthiness;	4	CAUC ²
	Principles	General of Airworthiness Standards;		
		Responsibility and Obligation of the Applicant, Holder and Authority;		
		Airworthiness Regulation System;		
		Development Trend of Airworthiness, etc.		
22002	Supplier Surveillance	AC-21-04, include: Supplier, Surveillance of Supplier and	16	CAUC
		Airworthiness management, PAH requirements and cooperation.		
22003	Airworthiness Standards of	MIL-HDBK-516,	4	CAUC
	US. Military aircraft	Military Aircraft airworthiness certification technology and methods		
22004	Civil Aircraft Customer	Continuous Airworthiness Responsibility,	8	CAUC
	Service System	Customer Service System;		
		Importance, Characteristics and covers category;		
		International Advanced Aviation Manufacturers Customer Service		
		System.		
22005	Airworthiness Certification	Airworthiness Certification Process;	8	CAUC
	Process and Factors	Airworthiness Certification Factors;		
22006	Airworthiness Inspectors	Counseling Technique.	8	CAUC
	Competence Requirement and	Interpersonal Behavior Problem Solving.		
	Certification Skill	Employee Development.		
		Group Behavior.		
		Interactive Skills in Communication and Attitude.		
22007	Production Certification and	AP-21-04,	8	CAUC
	Surveillance Procedures	Application, Certification and Issuance of		
		Production Certificate (PC) for manufacturing civil aviation products;		
		Aircraft Certification System Evaluation Program(ACSEP);		
		Quality control system;		
21008	Airworthiness	CCAR-25,CCAR-26,	24	CAMIC
	Standards(General)	Concept, Content, Object and Means;		

Appendix 6 Catalogue of Airworthiness Professional Training Courses

² CAUC is Civil Aviation University of China

		Items and Acceptable Means of Compliance.		
21009	Certification Procedures for Civil Aviation Products and Parts	CCAR-21 "Certification Procedures for Civil Aviation Products and Parts "	24	CAMIC CAUC
2YZZZ	Engine	CCAR-33 "Airworthiness Standards: Aircraft Engines "	16	Vacant
23010	Noise	CCAR-36 "Noise Standards: Aircraft Type and Airworthiness Certification "	21	BUAA ³
21011	Aircraft TC procedure	Indoctrination Training for all Certification Engineering and Test Pilot Disciplines: TC and TC system and Process, Design Assurance System. Airframe, Propulsion, Systems and Flight Test.	24	CAMIC
21012	Production Certification and Surveillance Procedures	AP-21-04, Application, Certification and Issuance of Production Certificate (PC) for manufacturing civil aviation products; Aircraft Certification System Evaluation Program(ACSEP); Quality control system;	24	CAMIC
21013	Airworthiness Certification of Aircraft and Related Products	Airworthiness Certificate, AP-21-05, AP-21-07, AP-21-10.	20	CAMIC
21014	Validation Procedures for Import and Export Civil Aviation Products and Parts	AP-21-01, Validation Procedures of Type Certificate. Airworthiness Inspection Process; Bilateral Airworthiness Agreement; Export Airworthiness Certificate.	24	CAMIC
21015	Airworthiness management of Part and Appliances	CCAR-21, CCAR-37, AP-21-04, AP-21-06, AP-21-01; Basic Certification Requirement; Procedure and Process;	24	CAMIC
21016	Nationality Registration Certificate	CCAR-21, CCAR-45, AP-45-02, AP-21-05; Application Guide of Nationality Registration Certificate;	24	CAMIC

³ BUAA is Beijing University of Aeronautics and Astronautics

	and AMIS System	AMIS system instructions;		
21017	Airworthiness Directives	CCAR-21、CCAR-39、AP-39-01,AP-21-02;	24	CAMIC
		AD Case; Implementation and Control of AD;		
		FAA and EASA AD Procedure and Orders;		
3?001	Flight Test	Basic Content of AC25-7A	8	Vacant
33002	Aircraft Flight Dynamics	Equations of Motion. Aerodynamic Concepts.	35	BUAA
		Longitudinal-Lateral-Directional Stability Derivatives.		
		Stick Fixed, Stick Force/Speed/Load Factor Gradient. Stick Free.		
		Perturbation Equations. Frequency Response and Feedback Systems.		
		Autopilot /Modes. Coupling and Non-coupling Problems.		
		Aero elastic effects.		
		Performance. Lift / Drag and High Lift Devices.		
		Pressure Distribution.		
33003	Human Factors in Cockpit	Cockpit Design. Crew Workload Assessment. Visibility. Lighting and	28	BUAA
	Standardization	Controls.		
33004	Aircraft Structure Fatigue	Definition and Recognition.	24	BUAA
	Evaluation	Theories of Failures. Fatigue damage and fatigue design.		
		Airworthiness Certification Requirements; Fatigue Load Spectrum		
		and the full-scale Fatigue Test, Security Life Assessment, Damaged		
		Safety Design and Evaluation,		
		Damage Tolerance Assessment, Structure Maintenance Program.		
32005	Transport Aircraft Structure	Airworthiness Certification Requirement of Structure Fatigue;	24	CAUC
	Fatigue Evaluation	Certification Process and Compliance Methods;		
		FAA Aircraft Structure Fatigue Certification Technology.		
33006	Aircraft Loads Assessment	Basic Aerodynamics.	28	BUAA
	—Basic Loads	Methods of Loads Analysis. Design Data. Critical Loading		
		Conditions. Airfoil Characteristics. Airplane Balancing.		
		Empennage and Wing Loads.		
		Landing Loads. In flight Measurements of Loads.		
		Evaluation of Typical Loads Report.		
33007	Aircraft Vibrations	Review of Mathematics and Physics, Definitions and Terms, Basic	35	BUAA
		Linear and Torsional Frequency Equation.		
		Single and Multi-Degrees of Freedom.		

		Free and Forced Damped Systems. Unbalance and Balancing Equipment. Absorbers and Dampers. Vibration Equipment and Use. Analysis of Continuous and Variable Cross-section Beams. Coupled Modes. Ground Vibration Survey.		
33008	Damage Tolerance Assessment	Fracture Mechanics Concepts. Stress Intensity Factor. Residual Strength of Damaged Elements. Surface-Corner-Embedded Flaws. Fastener Flexibility. Energy Release Rate and Pseudo Closed Form Solutions. Critical Crack Length. Crack Arrestors. Crack Growth Assessment. Retardation Models.	35	BUAA
33009	Flutter Analysis and Flight Flutter Testing	 Structural Flexibility and Stiffness. Natural Frequencies and Mode Shapes. Excitation Techniques. Ground Vibration Testing. Nature of Flutter. Two and Three Dimensional Incompressible and Compressible Flow. Flutter with Two or Three Degrees of Freedom. Aero elastic Effects. Flutter Testing. Data Acguisition and Instrumentation. Data Reduction. 	35	BUAA
33010	Composite Materials	 Heterogeneous Materials. Characteristics of Fibers and Matrix Materials. Unidirectional Composites and Structural Laminates. Laminate Theory and Behavior. Interlaminar Stresses. Fracture. Fatigue. Analysis of Structural Elements. Design and Evaluation. Test Methods. Fabrication. Processing. Repair. Design Applications. 	21	BUAA
3YZZZ	Power Plant Certification	Power Plant Airworthiness Certification Requirements and Policy	8	Vacant
33011	Fuel Systems and Design	Design Criteria. Crashworthiness Considerations. Ignition Sources. Fire Suppression/Prevention. Frangible Attachments. Self-Sealing Breakaway Couplings.	35	BUAA

33012	Engine Air induction systems	Design Techniques. Inlet Distortion, Icing Considerations. Inlet Losses. Stalls and Surge Characteristics. Environmental	28	BUAA
		Considerations.		
33013	Turbine Engine Principles	Turbine Engine Fundamentals. Components. Compressible Flow. Turbo Jet. Turbo Fan. Turbo Shaft. Performance. Dynamics. Air system, Failure Mode Analysis.	35	BUAA
33014	Reciprocating Engine	Reciprocating Engine Principles,Components. Performance, Dynamics.	35	BUAA
33015	Electronic transmission of Flight Control Systems	CCAR-25 §25.143、25.181、25.671、25.672、25.1309 articles;Flight Control Systems, Airworthiness Regulation and Procedure, Certification Factors and Compliance Methods, System Safety Assessment.	21	BUAA
33016	Oxygen and Protective Breathing Systems	System Design, Installation and Maintenance. Methods for Calculating the Flow and Quantity Requirements. Test and Analysis Methods. Industry Specifications.	21	BUAA
33017	Automatic Control Principle	Control System Theory, Stability, Linear and nonlinear Systems	35	BUAA
33018	Transmission Systems	Gears. Bearings. Shafting. Seals. Lubrication. Cooling. Oil Pumps / Filters. Case Design.	28	BUAA
33019	Environmental Systems	Air Conditioning. Bleed Air Cooling. Ozone. Pressurization. Ventilation. Purpose and Function of Systems. Failure Effects. Testing and Analysis Methods.	28	BUAA
33020	Aircraft Anti-Ice/Deice Systems	 Physics for Ice Collection. Technical Report AD-4. Icing Data statistics for Design Criteria. Protection Methods. AC20-73. Testing and Analysis Methods with and without Ice Shapes 	35	BUAA
32021	System Safety Assessment	Introduces background and development of the system safety assessment theory and process, Related Regulation, Procedure and Advisory Circular, Requirement and Goal, SAE standards ,manual and guidelines, Future Development Trends and Strategies, Standard Process and Methods.	24	CAUC

32022	Certification Considerations	SAE ARP-4754,	24	CAUC
	for Highly-Integrated or	Certification Process and Coordination		
	Complex Aircraft Systems	Development Assurance Level (DAL) and allocation strategy.		
32023	Certification Considerations	DO-254	24	CAUC
	for Airborne Electronic	Means of Compliance, Hardware Life Cycle, Security Considerations,		
	Hardware	Verification and Certification Process,		
		Development Processes,		
		Configuration Management Process,		
		Tool Qualification. Commercial off-the-shelf (COTS)Hardware,		
		Planning Process.		
32024	Software Considerations In	DO-178B(Purpose, Content, History, Develop Trend), Software Life	24	CAUC
	Airborne Systems and	Cycle, Planning Process, Development Processes,		
	Equipment Certification	Verification Process,		
		Configuration Management Process,		
		Quality Assurance Process,		
22025		Tool Qualification.		
32025	Environmental Conditions and	DO-160,Backgound,	24	CAUC
	Test Procedures for Airborne	23 Items of DO-160F Airborne Equipment Environmental Test		
	Equipment	Purpose and Process; Gaps in DO-160D、E、F		
		DO-160 instructions.		
33026	Computer Technology	Survey of Current Computer Operating Systems and System	35	BUAA
		Programs. Computer System Organization and Logic Design.		
		Computer Structure. Artificial Intelligence. Programming.		
		System Usage.		
		Resent Developments in Computers and Programs. Hardware and		
		Software as Applied to Real Time Systems. Language. Computer		
227777		Aided Design and Manufacturing.	0	X 7
3YZZZ	Manufacturing Compliance	Introduce the basic concepts and process of Manufacturing	8	Vacant
22027	Check in Test Products	Compliance Check	1.6	
32027	Certification Maintenance	Continuous Airworthiness Management; Invisible Fault; AC25-19;	16	CAUC
	Requirement(CMR)	Definition, History, Propose and develop of CMR;		
		The Relationship and connector between CMR and MSG-3 process		

31028	Continuous Airworthiness	Origin, Significance and the main Types of Continued Airworthiness	24	CAMIC
	Document Management	Document;		
		Compile, Approval, Issuance and revision in the process of		
		certification and service of aviation products, etc		
32029	Airworthiness Certification	Airworthiness Certification Items, Advisory Circular and Authority	24	CAUC
	Technology in Composite	accepted Standards;		
	Materials	Means of Compliance;		
32030	Certification Technology in	Airworthiness Certification Items, Advisory Circular and Authority	24	CAUC
	Airframe Crashworthiness	accepted Standards;		
		Means of Compliance.		
33031	Engine Control System	Connotation and Means of Compliance in CCAR-33§ 33.28(Engine	21	BUAA
		Control System).		
		The basic theory and analysis method in §33.75(Safety		
		Analysis)related to Engine Control System		
33032	Engine Time Limited Parts	Basic Concept and Airworthiness Requirement;	21	BUAA
		Define a closed-loop system in Time Limited Parts; Engineering plan,		
		manufacturing plan and In-Service management plan.		
33033	Certification Technology in	Airworthiness Certification Items and Advisory Circular in Classic	24	CAUC
	Flight Control Systems	and modern electronic transmission Flight Control Systems;		
		Airworthiness Key Requirement in design, implementation and		
		verification.		
33034	Certification Technology in	Airworthiness Certification Items, Advisory Circular and Authority	24	CAUC
	Human Factors	accepted Standards;		
		Acceptable Means of Compliance(AMCs) and Guidance		
		Materials(GM);		
		Interpretation of EASA CS-25 §1302 item; general principles of		
		Human Factors design, methods and compliance, evaluation tools and		
41001	A: (1: D: (1	Certification Test Analysis.	24	
41001	Airworthiness Designated	CCAR-183" Rules for Designation of Civil Aircraft Airworthiness	24	CAMIC
	Engineering Representative	Representative Individuals and Organization";		
		AP-183-01, AP-183-02, AP-183-07.		