

LEGAL NOTICE NO. 202

REPUBLIC OF TRINIDAD AND TOBAGO

THE CIVIL AVIATION ACT, CHAP. 49:03

REGULATIONS

MADE BY THE AUTHORITY WITH THE APPROVAL OF THE MINISTER UNDER
SECTION 33 OF THE CIVIL AVIATION ACT

THE CIVIL AVIATION [(NO. 9) AVIATION TRAINING
ORGANIZATION] (AMENDMENT) REGULATIONS, 2009

1. These Regulations may be cited as the Civil Aviation [(No. 9) Citation
Aviation Training Organization] (Amendment) Regulations, 2009.
2. In these Regulations “the Regulations” means the Civil Aviation Interpretation
[(No. 9) Aviation Training Organization] Regulations, 2004.
3. Regulation 39 of the Regulations is amended in subregulation (4), Regulation 39
by deleting the words “subregulation (1)” and substituting the words amended
“subregulation (3)”.
4. Regulation 45 of the Regulations is amended in subregulation Regulation 45
(1)(c)(ii), by inserting after the words “for dual” the word “and”. amended
5. The Regulations are amended by revoking regulation 47 and Regulation 47
substituting the following regulation: revoked and
substituted
 - “ 47. (1) An Aviation Training Organization shall not conduct
training of a person for an Aircraft Maintenance Engineer
Licence category or rating unless the Aviation Training Organi-
zation holds an Aviation Training Organization Certificate with
Aircraft Maintenance Training operating specifications issued
under regulation 5.
 - (2) Notwithstanding subregulation (1), the holder of an—
 - (a) Aircraft Maintenance Engineer Licence;
 - (b) Air Operator Certificate; or
 - (c) Approved Maintenance Organization,may conduct training of a person for an Aircraft Maintenance
Engineer Licence category or rating under a training programme
approved by the Authority.”.

Regulation 49 amended 6. Regulation 49 of the Regulations is amended, by deleting paragraphs (a), (b) and (c) and substituting the following paragraphs:

- “(a) A—Airframe, fixed wing category;
- (b) A—Airframe, rotary wing category;
- (c) C—Engine, piston category;
- (d) C—Engine, turbo-jet, turbo-prop and turbo-shaft category;
- (e) E1—Avionics Systems category for Electrical, Instruments and Radio systems;
- (f) E2—Avionics Systems category for Electrical, Instruments, Radio, Auto Flight and Flight Management systems;
- (g) A—Airframe Type Rating;
- (h) C—Engine Type Rating;
- (i) E1—An Avionics Systems group rating for the electrical systems, radio systems and instrument systems, for an aeroplane of 5,700 kgs or less, maximum certified take-off mass and helicopters of 2,730 kgs or less, maximum certified take-off mass;
- (j) E2—An Avionics Systems group rating for the electrical systems, radio systems, instrument systems, auto flight systems and flight management systems for an aeroplane of 5,700 kgs or less, maximum certified take-off mass and helicopters of 2,730 kgs or less, maximum certified take-off mass;
- (k) E1—Avionics Systems type rating for an aeroplane type over 5,700 kgs certified take-off mass or a helicopter type over 2,730 kgs maximum certified take-off mass; and
- (l) E2—Avionics Systems type rating for an aeroplane type over 5,700 kgs certified take-off mass or a helicopter over 2,730 kgs maximum certified take-off mass.”

Regulation 50 amended 7. Regulation 50 of the Regulations is amended—

- (a) in subregulation (1), by deleting the words “rating or ratings” and substituting the words “category or rating”;
- (b) by deleting subregulation (2)(b) and substituting the following paragraph:
 - “(b) offer the number of hours specified in the applicable Implementing Standards to this regulation in Schedule 3.”; and
- (c) by deleting subregulation (7) and substituting the following subregulation:
 - “(7) An Approved Training Organization with Aircraft Maintenance Training Specifications may issue a Certificate of Completion where a person successfully completes a course approved by the Authority.”

8. The Regulations are amended by revoking regulation 52 and substituting the following regulation: Regulation 52
revoked and
substituted

“ 52. (1) An Aviation Training Organization with Aircraft Maintenance Training Specification shall ensure that an instructor for an Aircraft Maintenance Engineer Licence category or rating holds an Aircraft Maintenance Engineer Licence category or rating appropriate to the training conducted.

(2) Notwithstanding subregulation (1), An Aviation Training Organization with Aircraft Maintenance Training Specifications may provide a specialized instructor who does not hold an Aircraft Maintenance Engineer Licence to teach mathematics, basic electricity, basic hydraulics, basic pneumatics, drawings and similar subjects and civil aviation requirements, laws and regulations.

(3) An Aviation Training Organization with Aircraft Maintenance Training Specification shall maintain a list of the names and qualifications of instructors referred to in subregulations (1) and (2) and upon request provide a copy of such list with a summary of the qualifications of each instructor to the Authority.”.

9. The Regulations are amended by revoking regulation 53. Regulation 53
revoked

10. The Regulations are amended by revoking regulation 54 and substituting the following: Regulation 54
revoked and
substituted

“ 54. An Aviation Training Organization with Aircraft Maintenance Training Specification may carry out the following as permitted by, and in accordance with its approved Training and Procedures Manual:

- (a) conduct approved Aircraft Maintenance Engineer Licence category courses or part thereof;
- (b) conduct approved Aircraft Maintenance Engineer Licence type rating or task training courses; and
- (c) issue a Certificate of Completion to students who successfully completed the courses specified in paragraphs (a) and (b).”.

11. The Regulations are amended by deleting the Implementing Standards to Regulation 50(4) in Schedule 3 and substituting the following Implementing Standards:

“Regulation 50(2)(b), (4) and (5)

1. The following Implementing Standards identify the subject matter, the time in which each topic and the level to which the topics are to be covered:

Level 1—denotes a basic understanding of a subject. Trainees should have a basic understanding of the subject but are not expected to be able to apply it in practice;

Level 2—denotes understanding of the subject and the ability, where applicable, to apply it in practice with the help of reference materials and instructions; and

Level 3—denotes a thorough understanding of the subject and the ability to apply it with speed, accuracy and judgement appropriate to the circumstances”;

(a) Knowledge training areas for the Aircraft Maintenance Engineer Licence categories:

(i) A—Airframe, Fixed wing:

Civil aviation requirements, laws and regulations

	<i>Hours</i>	<i>Level</i>
1 International and State aviation law	10	3
2 Airworthiness requirements	10	3
3 Civil aviation operating regulations	10	3
4 Air transport operations	10	3
5 Organization and management of the operator	10	3
6 Operator economics related to maintenance	10	3
7 Approved maintenance organizations (AMOs)	30	3
8 Aircraft maintenance licence requirements	10	3
9 The role of the State aviation regulatory body	10	3
10 Aircraft certification, documents and maintenance	10	3

Natural science and general principles of aircraft

1 Mathematics	75	1
2 Physics	70	1
3 Technical Drawing	70	1
4 Chemistry	30	1
5 Fixed wing aerodynamics and flight control	100	2

Aircraft engineering and maintenance: Airframe

1 Maintenance practices and materials: Airframe/ Power Plant	200	3
2 Aircraft systems and structures: Fixed wing	250	3
3 Airship systems and structures	100	3

**Human performance and limitations—Required
knowledge, skills and attitudes**

1 General programme overview	3	3
2 Human Factors knowledge	3	3
3 Communication skills	3	3
4 Teamwork skills	3	3
5 Performance management	3	3
6 Situation awareness	3	3
7 Human error	3	3
8 Reporting and investigating errors	3	3
9 Monitoring and auditing	3	3
10 Document design	3	3

(ii) A—Airframe, Rotary wing:

Civil aviation requirements, laws and regulations

	<i>Hours</i>	<i>Level</i>
1 International and State aviation law	10	3
2 Airworthiness requirements	10	3
3 Civil aviation operating regulations	10	3
4 Air transport operations	10	3
5 Organization and management of the operator	10	3
6 Operator economics related to maintenance	10	3
7 Approved maintenance organizations (AMOs)	30	3
8 Aircraft maintenance licence requirements	10	3
9 The role of the State aviation regulatory body	10	3
10 Aircraft certification, documents and maintenance	10	3

Natural science and general principles of aircraft

1 Mathematics	75	1
2 Physics	70	1
3 Technical drawing	70	1
4 Chemistry	30	2
5 Rotary wing aerodynamics and flight control	100	2

Human performance and limitations—Required knowledge, skills and attitudes

1 General programme overview	3	3
2 Human Factors knowledge	3	3
3 Communication skills	3	3
4 Teamwork skills	3	3
5 Performance management	3	3
6 Situation awareness	3	3
7 Human error	3	3
8 Reporting and investigating errors	3	3
9 Monitoring and auditing	3	3
10 Document design	3	3

(iii) C—Engine, Piston:

Civil aviation requirements, laws and regulations

1 International and State aviation law	10	3
2 Airworthiness requirements	10	3
3 Civil aviation operating regulations	10	3
4 Air transport operations	10	3
5 Organization and management of the operator	10	3
6 Operator economics related to maintenance	10	3
7 Approved maintenance organizations (AMOs)	30	3
8 Aircraft maintenance licence requirements	10	3
9 The role of the State aviation regulatory body	10	3
10 Aircraft certification, documents and maintenance	10	3

(iii) C—Engine, Piston—*Continued*

	<i>Hours</i>	<i>Level</i>
Natural science and general principles of aircraft		
1 Mathematics	75	1
2 Physics	70	1
3 Technical drawing	70	1
4 Chemistry	30	1
Aircraft engineering and maintenance: Engines/ Power Plants		
1 Piston engines	250	3
2 Propellers	100	3
3 Fuel systems	100	3
Human performance and limitations—Required knowledge, skills and attitudes		
1 General programme overview	3	3
2 Human Factors knowledge	3	3
3 Communication skills	3	3
4 Teamwork skills	3	3
5 Performance management	3	3
6 Situation awareness	3	3
7 Human error	3	3
8 Reporting and investigating errors	3	3
9 Monitoring and auditing	3	3
10 Document design	3	3
(iv) C—Engine, Turbo-jet, Turbo-shaft and Turbo-propeller:		
Civil aviation requirements, laws and regulations		
1 International and State aviation law	10	3
2 Airworthiness requirements	10	3
3 Civil aviation operating regulations	10	3
4 Air transport operations	10	3
5 Organization and management of the operator	10	3
6 Operator Economics related to maintenance	10	3
7 Approved maintenance organizations (AMOs)	30	3
8 Aircraft maintenance licence requirements	10	3
9 The role of the State aviation regulatory body	10	3
10 Aircraft certification, documents and maintenance	10	3
Natural science and general principles of aircraft		
1 Mathematics	75	1
2 Physics	70	1
3 Technical Drawing	70	1
4 Chemistry	30	1

(iv) C—Engine, Turbo-jet, Turbo-shaft and Turbo-propeller—*Continued*

**Aircraft engineering and maintenance: Engines/
Power Plants**

	<i>Hours</i>	<i>Level</i>
1 Propellers	100	3
2 Gas turbine engines	300	3
3 Fuel systems	100	3

**Human performance and limitations—Required
knowledge, skills and attitudes**

1 General programme overview	3	3
2 Human Factors knowledge	3	3
3 Communication skills	3	3
4 Teamwork skills	3	3
5 Performance management	3	3
6 Situation awareness	3	3
7 Human error	3	3
8 Reporting and investigating errors	3	3
9 Monitoring and auditing	3	3
10 Document design	3	3

(v) E—Avionics Systems, Electrical, Instruments and Radio
Systems:

Civil aviation requirements, laws and regulations

1 International and State aviation law	10	3
2 Airworthiness requirements	10	3
3 Civil aviation operating regulations	10	3
4 Air transport operations	10	3
5 Organization and management of the operator	10	3
6 Operator economics related to maintenance	10	3
7 Approved maintenance organizations (AMOs)	30	3
8 Aircraft maintenance licence requirements	10	3
9 The role of the State aviation regulatory body	10	3
10 Aircraft certification, documents and maintenance	10	3

Natural science and general principles of aircraft

1 Mathematics	75	1
2 Physics	70	1
3 Technical drawing	70	1
4 Chemistry	30	1

**Aircraft engineering and maintenance: Avionics/
Electrical and Instrument**

1 Maintenance practices and materials	200	3
2 Electrical and electronic fundamentals	450	2
3 Digital techniques, computers and associated devices	200	2
4 Aircraft electrical systems	250	3
5 Aircraft instrument systems	250	3

**Aircraft engineering and maintenance: Avionics—
Navigation/Radio**

1 Aircraft inertial navigation systems (INS)	60	3
2 Aircraft radio and radio navigation systems	450	3

(v) E—Avionics Systems, Electrical, Instruments and Radio Systems—*Continued*

Human performance and limitations—Required knowledge, skills and attitudes		
	<i>Hours</i>	<i>Level</i>
1	General programme overview	3 3
2	Human Factors knowledge	3 3
3	Communication skills	3 3
4	Teamwork skills	3 3
5	Performance management	3 3
6	Situation awareness	3 3
7	Human error	3 3
8	Reporting and investigating errors	3 3
9	Monitoring and auditing	3 3
10	Document design	3 3
 (vi) E2—Avionics Systems, Electrical, Instruments, Auto-Flight, Flight Management and Radio Systems:		
Civil aviation requirements, laws and regulations		
1	International and State aviation law	10 3
2	Airworthiness requirements	10 3
3	Civil aviation operating regulations	10 3
4	Air transport operations	10 3
5	Organization and management of the operator	10 3
6	Operator economics related to maintenance	10 3
7	Approved maintenance organizations (AMOs)	30 3
8	Aircraft maintenance licence requirements	10 3
9	The role of the State aviation regulatory body	10 3
10	Aircraft certification, documents and maintenance	10 3
 Natural science and general principles of aircraft		
1	Mathematics	75 1
2	Physics	70 1
3	Technical drawing	70 1
4	Chemistry	30 1
 Aircraft engineering and maintenance: Avionics/ Electrical and Instrument		
1	Maintenance practices and materials	200 3
2	Electrical and electronic fundamentals	450 2
3	Digital techniques, computers and associated devices	200 2
4	Aircraft electrical systems	250 3
5	Aircraft instrument systems	250 3
 Aircraft engineering and maintenance: Avionics— AFCS/Navigation/Radio		
1	Automatic flight control systems (AFCS): Fixed wing	200 3
2	Automatic flight control systems (AFCS): Rotary wing	75 3
3	Aircraft inertial navigation systems (INS)	60 3
4	Aircraft radio and radio navigation systems	450 3

- (vi) E2—Avionics Systems, Electrical, Instruments, Auto-Flight, Flight Management and Radio Systems:—*Continued*

Human performance and limitations—Required knowledge, skills and attitudes

	<i>Hours</i>	<i>Level</i>
1 General programme overview	3	3
2 Human Factors knowledge	3	3
3 Communication skills	3	3
4 Teamwork skills	3	3
5 Performance management	3	3
6 Situation awareness	3	3
7 Human error	3	3
8 Reporting and investigating errors	3	3
9 Monitoring and auditing	3	3
10 Document design	3	3

- (b) Skills training areas for the Aircraft Maintenance Engineer Licence categories:

- (i) A—Airframe, Fixed Wing and Rotary Wing:

Practical maintenance skills—Airframe

1 Basic workshop and maintenance practices—Airframe	725	3
2 Basic workshop and maintenance practices—Repair, maintenance and function testing of aircraft systems and components	1000	3
3 Job and task documentation and control practices	100	3

- (ii) C—Engine, Piston and Turbo-jet, Turbo-prop and Turbo-Shaft:

Practical maintenance skills—Engine and Propeller

1 Basic workshop and maintenance practices—Engine and propeller	450	3
2 Basic workshop and maintenance practices—Engine, propeller systems, component and function testing	450	3
3 Job and task documentation and control practices	100	3

- (iii) E1—Avionics Systems:

Practical maintenance skills—Electrical, Instruments and Radio

1 Basic workshop and maintenance practices—Avionics Electrical	775	3
2 Basic workshop and maintenance practices—Avionics Instruments	1000	3
3 Basic workshop and maintenance practices—Avionics Radio	875	3
4 Repair, maintenance and function testing of aircraft avionics systems and components	100	3
5 Job and task documentation and control practices	100	3

(iv) E2—Avionics Systems:

	<i>Hours</i>	<i>Level</i>
Practical maintenance skills—Electrical, Instruments, Auto-flight and Radio		
1 Basic workshop and maintenance practices—Avionics Electrical	775	3
2 Basic workshop and maintenance practices—Avionics Instruments	1000	3
3 Basic workshop and maintenance practices—Avionics Auto Flight	225	3
4 Basic workshop and maintenance practices—Avionics Radio	875	3
5 Repair, maintenance and function testing of aircraft avionics systems and components	100	3
6 Job and task documentation and control practices	100	3

(c) Training for a type rating shall be in accordance with the manufacturer's type rating course.

Made by the Civil Aviation Authority this 8th day of July, 2009.

R. LUTCHMEDIAL
Civil Aviation Authority

Approved by the Minister of Works and Transport this 13th day of July, 2009.

C. IMBERT
Minister of Works and Transport

Laid in the House of Representatives this 4th day of September, 2009.

J. SAMPSON
Clerk of the House

Laid in the Senate this 22nd day of September, 2009.

N. JAGGASSAR
Clerk of the Senate