

# NEPALESE CIVIL AIRWORTHINESS REQUIREMENTS

## SECTION F

### AIRCRAFT MAINTENANCE TECHNICIAN LICENCES

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CHAPTER F.3

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### LICENCE KNOWLEDGE AND EXPERIENCE REQUIREMENTS

#### 1. INTRODUCTION

- 1.1 This chapter prescribes the knowledge and practical experience of aircraft maintenance engineering required for the grant of each category of aircraft maintenance technician licence and the ratings thereto.
- 1.2 The detailed syllabus for each prescribed examination is given in Appendix-1 to this chapter and specimen Schedules of Work in Appendix-2.

#### 2. EXAMINATIONS

- 2.1 For the grant of aircraft maintenance technician licence categories the examination subjects shall be as follows:

Subject 1	Basic Mathematics and Physics
Subject 2	Workshop Practice
Subject 3	Aircraft Materials and Standard Parts
Subject 4	Aircraft General Knowledge
Subject 5	Avionic General Knowledge
Subject 6	Aeroplane Aerodynamics and Design
Subject 7	Rotorcraft Aerodynamics and Design
Subject 8	Aircraft Structure and Landing Gear
Subject 9	Helicopter Construction and Systems
Subject 10	Aircraft Systems
Subject 11	Piston Engines
Subject 12	Gas Turbine Engines
Subject 13	Basic Electronics and Servomechanisms
Subject 14	Aircraft Electrical Systems and Equipment
Subject 15	Aircraft Instrument Systems and Equipment
Subject 16	Basic Radio and Navigation Theory
Subject 17	Aircraft Radio Stations and Equipment
Subject 18	Airworthiness Rules and Requirements

- 2.2 The examinations in Subjects 1, 2, 3, 4 and 5 will each be of 1½ hours duration and will normally consist of forty multi-choice questions and five questions requiring short answers.

- 2.3 The examinations in Subjects 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 and 17 will each be of two hours duration and will normally consist of 40 multi-choice questions and 5 questions requiring short answers.
- 2.4 The examination in Subject 18 will be an oral examination.
- 2.5 An examination for the addition of a rating to a category may be written, oral and practical and of such duration as the Director General may determine in each particular case.

### **3. EXPERIENCE**

- 3.1 No person may be granted an aircraft maintenance technician licence Type II unless:
  - a) he has completed four years of practical experience of aircraft maintenance engineering, or
  - b) he has completed two years of practical experience and satisfactorily completed an approved ab initio training course as an aircraft maintenance technician.

*Note: Practical experience of aircraft maintenance engineering must be experience of maintenance of the civil registered aircraft, aircraft components or aircraft systems.*

- 3.2 An applicant to sit the written examinations Subject 1 to 5 is required to have completed one year of practical experience before his application will be accepted.
- 3.3 An applicant to sit the written examinations Subject 6 to 17 is required to have completed two years of practical experience before his application will be accepted.
- 3.4 An applicant to sit the oral examination Subject 18 is required to have obtained the examination credits and practical experience prescribed for the grant of the particular category of licence for which he has applied.
- 3.5 Of the total experience of an applicant for the initial issue of a licence category, a minimum of one year must be experience relevant to the scope of the particular category. The relevant experience shall have been gained not more than two years previous to the date of application.
- 3.6 Of the total experience of an applicant for a rating to a licence category, a minimum of six months must be experience of maintenance of the particular civil registered aircraft, aircraft components or aircraft systems to be included in the rating. The maintenance experience shall have been gained not more than one year previous to the date of application. An applicant for a rating is also required to submit a Schedule of Work before the rating will be issued.

*Note: A Schedule of Work is a list of maintenance tasks completed on particular civil registered aircraft, aircraft components or aircraft systems by the applicant and certified by his supervisor as a true and proper record. Guidance on acceptable Schedules of Work for each category of licence is given in Appendix-2 of this chapter.*

*The record of maintenance tasks should be entered in an Aircraft Maintenance Experience Log.*

#### 4. CREDITS REQUIRED FOR LICENCE CATEGORIES

4.1 **All Categories:** For the grant of a licence in any category, the applicant shall, by pass or exemption, hold credits in the following subjects:

Subject 1	Basic Mathematics and Physics
Subject 2	Workshop Practice
Subject 3	Aircraft Materials and Standard Parts
Subject 4	Aircraft General Knowledge
Subject 5	Avionic General Knowledge

4.2 **Particular Categories:** For the grant of a licence in a particular category, the applicant shall, by pass or exemption, hold credits additional to those listed in paragraph 4.1 as follows:

##### 4.2.1 Licence in Category 'A' (Airframes)

###### a) Group 1 or 2, Aeroplanes

Subject 6	Aeroplane Aerodynamics and Design
Subject 8	Aircraft Structure and Landing Gear
Subject 10	Aircraft Systems

###### b) Group 3 Rotorcraft

Subject 7	Rotorcraft Aerodynamics and Design
Subject 9	Helicopter Construction and Systems

##### 4.2.2 Licence in Category 'C' (Engines)

###### a) Group 1 Piston Engines

Subject 11	Piston Engines
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###### b) Group 2 Gas Turbine Engines

Subject 12	Gas Turbine Engines
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4.2.3 **Licence in Category 'X' (Electrical Systems)**

a) **Group 1, Simple Electrical Systems**

Subject 14 Aircraft Electrical Systems and Equipment

b) **Group 2 Type Electrical Systems**

Subject 13 Basic Electronics and Servomechanisms

Subject 14 Aircraft Electrical Systems and Equipment

4.2.4 **Licence in Category 'X' (Instruments)**

a) **Group 1 Simple Instrument Systems**

Subject 15 Aircraft Instrument Systems and Equipment

b) **Group 2 Type Instrument Systems**

Subject 13 Basic Electronics and Servomechanisms

Subject 15 Aircraft Instrument Systems and Equipment

4.2.5 **Licence in Category 'R' (Radio and Associated Avionic Systems)**

a) **All Groups**

Subject 13 Basic Electronics and Servomechanisms

Subject 16 Basic Radio and Navigation Theory

Subject 17 Aircraft Radio Stations and Equipment

5. **KNOWLEDGE AND EXPERIENCE REQUIRED FOR RATINGS**

5.1 A rating will be granted to an applicant who has obtained the credits and experience required for the relevant category and, additionally:

- a) has completed a satisfactory Schedule of Work in respect of the type or group of aircraft, aircraft components or aircraft systems to be included in the rating, and
- b) has passed written, oral and practical examination on the type of aircraft, aircraft components or aircraft system to be included in the rating, and
- c) if the type is classified in a group for which completion of an approved course is mandatory, has successfully completed the approved course.