

Nepal Airlines Corporation

Syllabus for Ground Equipment Officer Grade VI Aircraft Maintenance Services Ground Equipment Group Operator sub group Internal Competition

A. Stages and Procedure of Examination System

चरण	विषय	अंकभार	परीक्षा प्रणाली	प्रश्न संख्या X अङ्क	समय
प्रथम चरण ८०%	सेवा सम्बन्धी	१००	Multiple Choice Questions (वस्तुगत)	५० X २ = १००	५० मिनेट
द्वितीय २०%	अन्तरवार्ता	२०	मौखिक		

B. Material Contents

- 1. Ground Handling Equipment Basics: 7 Questions**
 - 1.1 Role of GSEO in the organization
 - 1.2 Equipment marking and Identification codes
 - 1.3 Equipment utility/purpose.
 - 1.4 Equipment Types
 - 1.5 Definitions and specific aviation Ground Handling terms. DGR, ULDs, Push Back,
 - 1.6 Basic aircraft parts. NLG, MLG wings, Tail, service ports, Pitot, Tow pin, Aircraft servicing points
- 2. Equipment Operations Principles 7 Questions**
 - 2.1 Equipment Basic operation principles
 - 2.2 Equipment prime movers in the GSE Fleet
 - 2.3 Basics of Pneumatics and Hydraulics
 - 2.4 GSE Components, parts and assemblies
 - 2.5 Basics of Manual/Automatic / Hydrostatic Transmission
- 3. Ramp Safety: 12 Questions**
 - 3.1 Hand Signals Pictorial/ Marshalling.
 - 3.2 Accident Prevention and Safety Precautions.
 - 3.3 Basic Equipment recovery and Evacuation.
 - 3.4 Radio Telephonic communications
 - 3.5 Safety devices: Fire bottle, Head set/ ear plug/ Fluorescent overalls
 - 3.6 Fire Fighting; Class of fires, Fire Triangle, Fire principles, Fire Fighting methods
Fire Hazards and principles of accident prevention, Suppression of fire and fire fighting equipment.
 - 3.7 Speed Limits in the Air Side
 - 3.8 Situational Awareness.
 - 3.9 FOD Foreign Object Debris.

- 3.10 Airside Signs
- 3.11 Walk Around Inspection Areas
- 3.12 DGR: DGR identification labels, reporting
- 3.13 Severe Weather precautions
- 3.14 Spillage and Leakage
- 3.15 Prop wash, Jet Blast
- 3.16 Aircraft Inlet and exhaust hazard Areas

4. Equipment Operations Regulations: 8 Questions

- 4.1 Staging Area; Purpose identification.
- 4.2 Aircraft servicing procedures and clearance.
- 4.3 Equipment specific SOP Cat A+, A and B GS Equipment
- 4.4 Fault/ Occurrence reporting.
- 4.5 Equipment capabilities and service limits of Cat A+, A and B GS Equipment
- 4.6 Basic vehicular Traffic regulations
- 4.7 Airside Tarmac regulations
- 4.8 Airside Tarmac discipline- Do's and Don'ts

5. Ground Equipment Management and Category Ratings: 7 Questions

- 5.1 Turn around Time.
- 5.2 Service Request Forms.
- 5.3 Equipment Category Classification/Authorization
- 5.4 CAAN Airside Driving Rules and Regulations
- 5.5 Human Factors- Perception and Application in GSE Operations
- 5.6 Aviation Security

6. Ground Equipment Operations SOP: 7 Questions

- 6.1 General Precautions and Safety Measures
- 6.2 Daily Inspection points in cat A+, A and B GS Equipment
- 6.3 Incidence, Accident and IRR
- 6.4 Incident Reporting
- 6.5 Pre Operational Procedures for Cat A+, A and B GS Equipment
- 6.6 Pre Docking procedures For Cat A+, A and B
- 6.7 Docking procedures For Cat A+, A and B
- 6.8 Aircraft push back procedures and precautions with conventional Push back tractors
- 6.9 Aircraft push back procedures and precautions with Towbarless Push back tractors

7. Safety Management System SMS, 2 Questions

- 7.1 Its Concept, application and advantages in respect to GS Equipment
