

Nepal Airlines Corporation
Syllabus for Senior GEO and Senior GEO cum Service Mechanics Grade V
Aircraft Maintenance Services
Ground Equipment Group- Operator sub group
Internal Competition

Subject: Service Related

Full Marks: 100

Time: 1 Hour 15 Minutes

Pass Marks: 40

No. of Questions – 100 Objective Questions x 1 Mark Each

All questions will be in Nepali

COURSE CONTENT

1. Ground Handling Equipment Basics: 15 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 15 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: 25 Questions

- 3.8 Hand Signals Pictorial/ Marshalling.
- 3.9 Accident Prevention and Safety Precautions
- 3.10 Basic Equipment recovery and Evacuation.
- 3.11 Radio Telephonic communications
- 3.12 Safety devices: Fire bottle, Head set/ ear plug/ Fluorescent overalls
- 3.13 Fire Fighting; Class of fires, Fire Triangle, Fire principles, Fire Fighting methods Fire Hazards and principles of accident prevention, Suppression of fire and firefighting equipment.
- 3.14 Speed Limits in the Air Side.
- 3.15 Situational Awareness.
- 3.16 FOD Foreign Object Debris.
- 3.17 Airside Signs

- 3.18 Walk Around Inspection Areas
- 3.19 DGR: DGR identification labels, reporting
- 3.20 Severe Weather precautions
- 3.21 Spillage and Leakage
- 3.22 Prop wash, Jet Blast
- 3.23 Aircraft Inlet and exhaust hazard Areas

4. Equipment Operations Regulations: 15 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't's

5. Ground Equipment Management and Category Ratings: 15 Questions

- 5.1 Turnaround 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: 15 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 Tow bar less, Push back tractors