

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: 2 Hours

Pass Marks: 40

No. of Questions – 100 Multiple Choice Objectives questions x 1 Marks 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**
 - 3.1 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: 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 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: 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 Towbarless Push back tractors
