

**Nepal Airlines Corporation**  
**Syllabus for Ground Equipment Operator Grade IV**  
**Aircraft Maintenance Services**  
**Ground Equipment Group- Operator sub group**  
**Open Competition**

**A. Stages and Procedure of Examination System**

चरण	विषय	अंकभार	परीक्षा प्रणाली	प्रश्न संख्या x अङ्क	समय
प्रथम ८०%	लेखन शिप सेवा सम्बन्धी	पुर्णाङ्क १०० उत्तिर्णाङ्क ४०	<b>Multiple Choice Questions</b> (वस्तुगत)	५० x २ = १००	४५ मिनेट
द्वितीय २०%	अन्तरवार्ता	२०	<b>मौखिक</b>		

**B. Material Contents**

- 1. Ground Support Equipment (GSE) Basics: 10 Questions**
  - 1.1 Role of GSEO in the Ground Handling Services
  - 1.2 Introduction of GSE and its application
  - 1.3 Introduction of GSE Operator
  - 1.4 Difference between GSE and other Automotive Vehicles
  - 1.5 Introduction to Airport Components: Apron, Ramp, Boarding Gate, Aircraft Parking Bay, Taxiway, Runway, Airside, Landside, Terminal Building, Hangar, Immigration, Custom, Security channel, etc.
  
- 2. Operating Principles of GSE 05 Questions**
  - 2.1 GSE Basic operation principles (power source and power conversion efficiency)
  - 2.3 Basics of Pneumatics and Hydraulics in the GSE
  - 2.4 Components, parts and assemblies of the GSE
  - 2.5 Basics of Manual/Automatic / Hydrostatic Transmission in the GSE and Vehicles.
  
- 3. Road/Ramp Driving Safety: 12 Questions**
  - 3.1 Hand Signals used during the road and ramp driving/operation.
  - 3.2 Accident Prevention and Safety Precautions.
  - 3.3 Safety devices: Fire bottle, ear muff/ ear plug/ Fluorescent jacket, safety boots, hand gloves, eye goggles, etc.
  - 3.4 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.
  - 3.5 Speed Limits in the Air Side and Land sides
  - 3.6 FOD: Foreign Object Debris/ Foreign Object Damage (Concept)

- 3.7 Airside Signs and Signals/Markings
- 3.8 Walk Around Inspection (Introduction and application)
- 3.9 Severe Weather precautions during driving/operation
- 3.10 Spillage and Leakage from GSE
- 3.11 Prop wash, Jet Blast of the aircraft engines (general concept)
- 3.12 Aircraft engine Inlet and exhaust hazard Areas (General idea)

**4. GSE Operating Rules/Regulations: 05 Questions**

- 4.1 Aircraft Staging Area (General idea for movement)
- 4.2 Fault/ Occurrence reporting of GSE and events
- 4.3 Equipment capabilities and service limits (General idea)
- 4.4 Vehicular Traffic regulations (Basic idea)
- 4.5 Airside Tarmac discipline- Do's and Don't's

**5. GSE Operations Management and Category Ratings: 05 Questions**

- 5.1 Equipment Category/Classification/Authorization System (general knowledge)
- 5.2 CAAN Airside Driving Rules and Regulations
- 5.3 Concept of Sensitivity of operation and Associated Risks in the GSE operation
- 5.4 Road driving license and ramp GSE operating authorization

**6. GSE Operation Procedures: 05 Questions**

- 6.1 General Precautions and Safety Measures
- 6.2 Incident, Accident and Irregularities (IAI)
- 6.3 IAI Reporting (concept and necessity)
- 6.4 Pre Operational Procedures for GSE in the airport
- 6.5 Pre Docking procedures for GSE on the aircraft
- 6.6 Docking procedures for GSE (General idea/concept)

**7. Safety Management System (SMS) 03 Questions**

- 7.1 Its Concept, application and advantages in respect to GSE Operations

**8. Security Management System (SeMS) 03 Questions**

- 8.1 Its Concept, application and advantages in respect to GSE Operations

**9. Quality Management System (QMS) 02 Questions**

- 9.1 Its Concept, application and advantages in respect to GSE Operations

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