

नेपाल नागरिक उड्डयन प्राधिकरण  
प्रविधिक सेवा, मेकानिकल इन्जिनियरिङ्ग समूह, चौथो तह, सहायक पदको प्रयोगात्मक परीक्षाको पाठ्यक्रम  
पूर्णाङ्क : ३० उत्तीर्णाङ्क : १५

**A. Workshop Practices (10 Marks)**

1. Identification and use of hand tools and special tools
2. Lathe exercise: Turning, Boring, Internal/External thread cutting, Eccentric turning
3. Shop fitting exercise: Cutting, Fitting, Drilling, Tapping, Male and Female Joints
4. Milling exercise: Horizontal milling with cylindrical and Side/Face cutters
5. Arc welding exercise: single vee, butt welding, fillet welding
6. Oxy-acetylene welding, cutting, brazing and soldering

**B. Vehicle Maintenance (10 Marks)**

1. Change of oil, fuel and air filter
2. Identification and change of lubricants
3. Changing of hydraulic/pneumatic pipe, hose and grease nipples
4. Servicing of cooling, fuel, clutch and brake system
5. Cleaning, Changing, Gap setting of spark plugs
6. Recognition of mis-alignments
7. Identification of electrical components of vehicle
8. Servicing of starter motor
9. Diagnosis and fault finding related to fuses
10. Changing of bearings, disassembly/assembly of electric motor/water pump

**C. Air Conditioning System Maintenance (10 Marks)**

1. Identification of major components
2. Identification of spare parts
3. Servicing of air conditioning system
4. Dismantling, Assembling, Repair and Maintenance of split air-conditioning unit