



NATIONAL TRANSMISSION & DESPATCH COMPANY LTD.

Sr#	Name of Post & BPS	Proposed Areas Weightages	Course Content for Professional/ Technical Knowledge
01	Fork Lifter Operator (BPS-09)	General/ Professional/ Technical: (Total 85 Marks) <ul style="list-style-type: none"> a) Islamic Studies (10 Marks) b) Pakistan Studies, General Knowledge/ Current Affairs (15 Marks) a) Professional/ Technical Knowledge as per their qualification and experience given in the advertisement of each category of the posts. (60 Marks) 	<u>Job Related Course Content (60 Marks) Must Include:</u> <ul style="list-style-type: none"> • Vehicle inspection prior to operation • Setup and equipment prior to lifting and movement • Travelling with or without load • Pallets and stacking • Reporting Maintenance problems • Forklift safety
02	Assistant Sub Station Attendant (BPS-07)	General/ Professional/ Technical: (85 Marks) <ul style="list-style-type: none"> a) Islamic Studies (10 Marks) b) Pakistan Studies, General Knowledge/ Current Affairs (15 Marks) c) General Paper of Matriculation standard, plus basic nature of job/ trade related questions for each category of the posts. (60 Marks) 	<u>Job Related Course Content (60 Marks) Must Include:</u> <ul style="list-style-type: none"> • Pakistani and Muslim Scientists • Introduction of Email, Mobile Phone, internet • Concept of Analogue and Digital equipment • Computer and its parts • Semi-Conductor diode introduction and usage • Introduction to Transformer and its parts • Introduction to galvanometer and Avo meter • Introduction to resistance, capacitance, potential difference, electric current • Concept of Direct current and Alternating Current and its usage • Different forms of energy • Law of conservation of energy • Conventional methods for production of electrical

			<p>energy</p> <ul style="list-style-type: none"> • Non- Conventional methods for production of electrical energy • Units of Work, Energy, resistance, current, voltage, capacitance • Concept of Air and its properties • Basic Concept of Ozone, Global Warming, Greenhouse gases, Chloroflouro carbon, Pollution and SMOG. • Concepts of Water, its properties and role as universal solvent.
03	Assistant Lineman (BPS-07)	<p>General/ Professional/ Technical: (85 Marks)</p> <p>a) Islamic Studies (10 Marks)</p> <p>b) Pakistan Studies, General Knowledge/ Current Affairs (15 Marks)</p> <p>c) General Paper of Matriculation standard, plus basic nature of job/ trade related questions for each category of the posts. (60 Marks)</p>	<p><u>Job Related Course Content (60 Marks) Must Include:</u></p> <ul style="list-style-type: none"> • Quadratic Equations, Partial Fractions, Sets and Functions, Trigonometry, Types of Triangles, Matrices and Determinants, Real and Complex Numbers, Ratio and Proportion, Pythagoras Theorem, Area, Volume • Types of Physical Quantities, Work and Energy, Joule's Law, Gravitation, Laws of Thermodynamics, Turning Effects of force, Geometrical Optics • Electrostatic Induction, Coulomb's law, Electrostatic field and potential, Volt, Use of Capacitor, Capacitance and its unit, Series and Parallel Combinations. • Resistance and its Unit, Equivalent Resistance in series and parallel combination, Definition of Electric Current, Ohm's law and its limitations, Difference between AC and DC, Live, Neutral and Earth Wires in domestic main supply. • Hazards of electricity (damage insulation, overheating

			<p>of cables)</p> <ul style="list-style-type: none"> • Safety measures in household electricity (Fuse, Circuit breaker, Earthwire)
04	Tube Well Operator (BPS-07)	<p>General/ Professional/ Technical: (85 Marks)</p> <p>a) Islamic Studies (10 Marks)</p> <p>b) Pakistan Studies, General Knowledge/ Current Affairs (15 Marks)</p> <p>c) General Paper of Matriculation standard, plus basic nature of job/ trade related questions for each category of the posts. (60 Marks)</p>	<p><u>Job Related Course Content (60 Marks) Must Include:</u></p> <ul style="list-style-type: none"> • Safety precautions, safety practice during operation of water turbine • Operational procedure of turbine • Inspection and maintenance of overhead water tank • Basic knowledge of simple measuring instruments i.e. Voltmeter, ammeter, watt and KWH meter and their working principle. • Different type of control valve used in water supply network i.e. Gate valve, NRV, air relieve valve, ball valve • Use the hand tools like pliers, hacksaw, hammer, screwdriver, hand
05	Plumber (BPS-07)	<p>General/ Professional/ Technical: (85 Marks)</p> <p>a) Islamic Studies (10 Marks)</p> <p>b) Pakistan Studies, General Knowledge/ Current Affairs (15 Marks)</p> <p>General Paper of Matriculation standard, plus basic nature of job/ trade related questions for each category of the posts. (60 Marks)</p>	<p><u>Job Related Course Content (60 Marks) Must Include:</u></p> <ul style="list-style-type: none"> • Tools & work safety. • working drawing, sketches and basic plumbing /sanitary installation symbols. • Application of measuring, marking, filing, sawing tools & instrument used. • The use of threading dies & other threading instruments. • The plumbing / sanitary installation tools. • The plumbing & sanitary installation regulations / standards applicable. • The plumbing fixtures, fittings & tell their applications. • The types, use & function of valves, cocks, and taps. • The plan & estimation of simple plumbing works for single story house. <p>The types, function & repair of water pumps.</p>

Note:

- a. Papers will be objective / MCQs type (Separate paper for each category).
- b. Papers for these Categories will be in both English & Urdu Language.
(Candidates be given option to attempt paper in English & Urdu Language as feel convenient)
- c. Passing marks will be 50% for all the above-mentioned categories.
- d. The purpose area / syllabus to be uploaded on the NTS website at least a week before the written test.