

Syllabus for Junior Engineer (Train Set) Level- 06, 25% LDCE Quota

1. Knowledge of Rajbhasha Rule.
2. General knowledge.
3. Knowledge of basic principal and working transmission used on Diesel electric & hydraulic engine.
4. Knowledge of working of diesel loco power pack assemblies like turbocharger, lube oil pump, water pump, after cooler, lube oil cooler, blowers, radiators, radiators fans etc. and their maintenance.
5. Defects & maintenance of fuel oil system, water cooling system, air brake system.
6. Knowledge of working of air brake system & vigilance control device and their maintenance.
7. Knowledge of testing and inspection of under track & engine chassis.
8. Knowledge of working of expresser & maintenance.
9. Knowledge of working of governor & maintenance.
10. Knowledge about quality control by diesel lab for lube oil, HSD oil & coolant water.
11. Knowledge of overhauling of equipment & testing of engine.
12. Knowledge of load test & rectification of problem observed during load test.
13. Knowledge of trouble shooting & modification & other knowledge related to diesel loco.
14. Knowledge of schedule maintenance of DEMU, DPC & DTC.
15. Knowledge of cooling system DPC engine.
16. Knowledge of DPC hydraulic system and radiator fan drive.
17. Knowledge of DEMU brake system (EP & Auto)
18. Knowledge of under gear examination/Schedule of DEMU.
19. Knowledge of operation and maintenance of hydraulic re-railling equipment.
20. Knowledge of operation and maintenance of 140Ton Crane (Mech.)
21. Basic knowledge of Conventional and phase MEMU.
22. Troubleshooting of MEMU
23. Basic knowledge of Vande bharat trains
24. MEMU night stabling and troubleshooting
25. Simple Mathematics likes:-
 - a. Arithmetic's
 - b. Area, Volume
 - c. Ratio, Proportion
 - d. Simple Interest, Compound Interest, Profit, Loss.