

TRAINING MODULE FOR NON-RAILWAY YARD STAFF/SHUNTING STAFF/GATEMAN
DURATION= 6 WORKING DAYS (6X6=36 HRS)

| Sl.No. | Topic | No. Of classes |
|--------|---|----------------|
| 1. | Brief idea about Railway & its objective, Brief idea of Important Definitions. | 1 |
| 2. | Brief idea of station, yard and various signals with special reference to Shunt signals, Hand signals, Fog signals. Points and Trap Indicators, SPI, SLB and BSLB. Types of points and their working, locking of points at interlocked and non-interlocked stations, clamping and cotter bolting of point to avoid any chances of derailment and point bursting. Crank handle operation. Working of trains during Signal Failure. Working & significance of Track Circuit & Axle Counter. | 4 |
| 3. | Kinds of shunting, shunting rules, precautions during shunting, persons authorized to supervise shunting & their responsibility. Issue of shunting order and shunting certificates, shunting speeds, different shunting stages. Securing of vehicles in running line and non-running line & Yard lines. | 2 |
| 4. | Brief idea of various system of working i.e. Absolute Block System and Automatic Block System, working of LC Gates, Failure of LC, Abnormal working at LC. | 4 |
| 5. | Definition, brief idea of marshalling of different trains, necessity of marshalling. Attaching of vehicles outside rear brake van, attaching of vehicles containing explosive, Dead engine and dangerous goods. Attaching of saloons, Inspections carriage. Important Whistle codes. | 2 |
| 6. | Specification of new rolling stock, Nomenclature of wagons, various marks on Goods stock. | 1 |
| 7. | Brake system and Advantage of Air Brake Brief idea of braking system. Working of Single Pipe and Double Pipe Air Brake System. Continuity test and its importance. | 2 |
| 8. | Examination of trains, Brake Power Certificate, percentage of brake power required in Goods trains, Causes of Brake Binding and it's releasing, Flat tyre and follows up action, Hot Axle & its detection. GDR Check, procedure of GDR check. | 2 |
| 9. | Couplings and its components, Brief idea of new rolling coaching and goods stock including LHB coach, important under gear component and their use, different types of couplings, method and precaution of attaching/detaching of vehicles. | 2 |
| 10. | Precautions to be taken during placement & drawn-out of rakes, during loading and unloading. Measures to be taken to prevent damage of wagons. Loading/unloading operations, Free time rules, left over materials in the wagons, damage to wagons during loading/unloading and its repercussion, Open doors or improper closing of doors, handing parts, loose packing, importance of reducing detention to rolling stocks, demurrage and its implications, EOL, GPWIS Schemes. | 4 |
| 11. | Fire in train, Train Parting, Hot axle Brake binding, handing Parts. | 2 |
| 12. | Common causes of yard accidents, their remedial measures and duties as a Railway men at the time of accident, Hooters, ART, ARME and their turning out time. Case studies. | 2 |
| 13. | Field Training | 6 |
| 14. | Examination: Objective type questions only (Full Marks-100, Pass Mark-60) Questions will contain 70% objective and 30% subjective type questions. | 2 |