

Training Module for Track Machine Supervisor/Operator

Department	Engineering
Course No.	SI/SP-1
Category	Track Machine Supervisors /Operator Initial and Promotion
Stage	Induction through RRB / Promotion through Departmental Examination
Duration	18 Working Days = 108 Hours

Module No.	Description	Hours	Days
SI/SP-1/1	Foundation course	06	01
SI/SP-1/2	Transportation -1 (Lower Transportation)	48	08
SI/SP-1/3	Safety Management	18	03
SI/SP-1/4	Information technology	18	03
SI/SP-1/5	Ethical leadership & Soft Skills	8½	1 ½
SI/SP-1/5A	Child Right , Child Protection and Related Laws	3½	½
SI/SP-1/6	Examination	06	01
	TOTAL	108	18

SI/SP-1/1 FOUNDATION COURSE	
SI/SP-1/1.1	Admission formalities.
SI/SP-1/1.2	History and development of Indian Railways. Organization of Indian Railways. Various organisations working under Ministry of railways. Future strategies.
SI/SP-1/1.3	Organization & functions of all departments, Functions of Operating department and Safety departments at various levels, CRS organization and functions & objectives etc.

SI/SP-1/2 TRANSPORTATION -1	
SI/SP-1/2.1	General Introduction of Railway and Transportation branch. Introduction of ZRTI setup, Syllabus, Timing, Examination pattern and future prospects.
SI/SP-1/2.2	Responsibility of railway employee in respect of their duties and safety.
SI/SP-1/2.3	Object of framing General and Subsidiary Rules, SWR & their necessity. General idea of WTT, Supply of Rules books, circulars to railway servants.
SI/SP-1/2.4	Important Definitions of G & SR Chapter No.1, Classification of stations.
SI/SP-1/2.5	Conduct of railway servants while performing duty. (Chapter no. 2 of G&SR)
SI/SP-1/2.6	Different classes of stations and their working. Station layouts, Station limits, Station section Block section limits etc.
SI/SP-1/2.7	Type of Signals (Fixed, Hand, Detonating & Warning flashing light), their importance, aspect and indications. Signals in Automatic Block Systems, their aspect & indications, various Boards, Indicators. Points, their functions and relations with the signals, Whistle code, Failure of points and signals – reception and dispatch of trains.
SI/SP-1/2.8	Warning Boards (Passenger, Goods, Shunting & Station), Shunting Limit Board, Block Section Limit Board, STOP Board, Caution & Termination Boards, etc.
SI/SP-1/2.9	Reception and Dispatch of Track Machine, reception and dispatch of trains on obstructed lines, non-signaled/non-running line etc.
SI/SP-1/2.10	Track Machines, general rules applicable, essential equipments, manning, competency certificate, Working of Track Machines at Station & in Block section, Break-down of Track Machine.
SI/SP-1/2.11	Knowledge and use of various Operating Forms
SI/SP-1/2.12	Definition, Principles and standards of Interlocking, Modes of locking and securing of points, Definition and Type of Isolation. Use of inter locking and Isolation in train operation & during Shunting.
SI/SP-1/2.13	Essentials of Absolute Block System, Automatic Block System and other system of workings as applicable, Means of communication.
SI/SP-1/2.14	Issuing of Caution order and responsibility of TTM/TW /Track machine operator regarding Caution Order, speed restrictions.
SI/SP-1/2.15	SWR, Working Time Table, Head Light, Marker Light, Flasher Light, Blinker Light, Means of Communication.
SI/SP-1/2.16	Shunting and Stabling of Track Machine - Responsibility of Track Machine operator

SI/SP-1/2.17	Line block, Protection of Engineering works & Indicators.
SI/SP-1/2.18	Precautions in case of – <ul style="list-style-type: none"> • Track Machine unable to proceed for any reason between stations, • Hot Axle / hot roller bearing or damaged vehicle in Train,
	<ul style="list-style-type: none"> • Noticed any abnormality in train, track and other installations which may cause danger to train operation, • Flooding of track
SI/SP-1/2.19	Use of PCP/ECP Box

SI/SP-1/3 SAFETY MANAGEMENT	
SI/SP-1/3.1	Accidents – <ul style="list-style-type: none"> • Various Definitions, Classification, • Safety in train operation • Consequential & other Train accidents • Indicative Accidents – Class F, G & H • Accident Management- Sounding of Siren, Movement of Relief trains • Running of ART, ARME, Hooters, Target Time and Ex-gratia payments • Protection of line, Preservation clues at the site • Fire on Trains, Hot Axle, Train Parting / Dividing • Duties of Track Machine operators in case of accidents or obstruction
SI/SP-1/3.2	Disaster Management – Introduction, Golden Hour
SI/SP-1/3.3	First Aid – (Theory & Practical) Aims and Objective of First Aid. Half Day Hands on Practice.
SI/SP-1/3.4	Fire Fighting – Theory & Demonstration, Types of fire, causes of fire in train and at station, types of fire extinguisher, upkeep/readiness and use of fire extinguisher. Hands on Practice.

SI/SP-1/4 INFORMATION TECHNOLOGY	
SI/SP-1/4.1	Computerization in Indian Railways
SI/SP-1/4.2	Basic Knowledge of Computers (Word, Excel, Power Point), Means of Social Media and their uses
SI/SP-1/4.3	FOIS, RMS, TMS, COIS, ICMS, PAM, CMS, NTES etc- an overview

SI/SP-1/4.4	Hands on Practice.
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SI/SP-1/5	ETHICAL LEADERSHIP & SOFT SKILL
SI/SP-1/5.1	Ethics – Meaning, Role, Need, Value and Importance in public life.
SI/SP-1/5.2	Leadership – Meaning, Role, Need, Value and Importance, Team building, Crowd/Mob Management.
SI/SP-1/5.3	Personality Development - Meaning, Need and Importance. Positive Attitude Development, Effective communication Skills, Patience.
SI/SP-1/5.4	Stress Management - Meaning, Causes, Symptoms, remedies importance in personal and professional life.
SI/SP-1/5.6	Soft Skills – Meaning, Requirements and its importance in public life.
SI/SP-1/5.7	Yoga, PT, Meditation and Shramdan.
SI/SP-1/5.8	Sports

SI/SP-1/5A	CHILD RIGHT , CHILD PROTECTION AND RELATED LAWS
SI/SP-1/5.1A	Introduction- Brief about the Organization, Introduce the training and sharing of objective.
SI/SP-1/5.2A	Pre-Assessment- To understand participant's knowledge, attitude, practice in relation to child protection.
SI/SP-1/5.3A	Introduction to child rights- The participants to gain an understanding of the following: Who is child, Why children are on street and on railway platforms? And their vulnerabilities, What are child Rights?
SI/SP-1/5.4A	Introduction to child Protection Mechanism and legal framework in India- Brief introduction and highlights of major laws on child protection with special focus on Juvenile Justice (Care and Protection) Act, 2015
SI/SP-1/5.5A	Orientation on Railway's SOP for Railways to care and protection of children in contact with Railways -Introduction to key components of the SOP and Guidebook, Participants to be introduced to the various role and responsibilities SS/SM, Roles and responsibilities of CHD with specific focus on RPF, Protocols to be followed in relation with children at the rly. stations and in Train
SI/SP-1/5.6A	Open discussion- Open discussion with participants about challenges while dealing with children
SI/SP-1/5.7A	Post-Training Assessment- To understand participant's knowledge, attitude, practice in relation to child protection
SI/SP-1/5.8A	Feedback and vote of thanks

SI/SP-1/6	EXAMINATION	Days	Hours
SI/SP-1/6.1	Paper – 1 (Transportation) – Marks = 100	1	3

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