

## South Eastern Railway

Office of the  
Sr. Divl. Personnel Officer  
S.E. Railway, Kharagpur

No. SER/P-KGP/EN/260/10/EN/Safety Counsellor/syllabus/25

Date: 06.08.2025

To

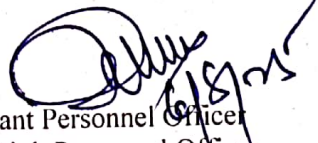
The Sr. DSTE(Co-ord.)  
S.E. Railway, Kharagpur

Sub: Approved uniform syllabus for the post of Safety Counsellor in Pay  
Level-7 (7<sup>th</sup> CPC) S&T Department of Kharagpur Division.  
Ref: PCPO/GRC's letter No. SER/P-HQ/EN/Safety counsellor/syllabus  
dated 04.08.2025.

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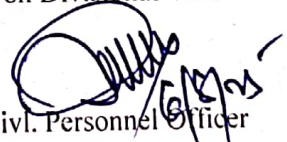
Enclosed please find the copy of PCPO/GRC's letter cited under reference  
regarding syllabus for selection to the post of Safety Counsellor in S&T Department of  
Kharagpur Division.

This is for your information and wide circulation amongst all the eligible staff of  
this Division so as to enable all the probable candidates to prepare themselves for the  
forthcoming examination.

  
Assistant Personnel Officer  
for Sr. Divl. Personnel Officer  
S.E. Railway, Kharagpur  
Date: 06.08.2025

No. SER/P-KGP/EN/260/10/Safety Counsellor

Copy to Ch. OS/IT cell/Sr. DPO Office/KGP for uploading the same on Divisional Website.

  
for Sr. Divl. Personnel Officer  
S.E. Railway, Kharagpur

o/c  
Shahid  
06/08/25

06.08.25

दक्षिणपूर्बरेलवे / South Eastern Railway

मुख्यालय/ Headquarters:  
कार्मिकविभाग / Personnel Department  
गार्डनरीच, कोलकाता - ७०००४३  
Garden Reach, Kolkata - 700043

NO: SER/P-HQ/EN/Safety Counsellor/Syllabus

Date: 04.08.2025

To  
The Dy. CSTE/HQ  
The Sr. Div. Personnel Officers  
(ADA/CKP/KGP/RNC)  
South Eastern Railway

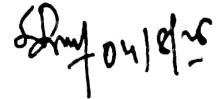
Sub: Approved uniform syllabus for the post of Safety Counsellor  
(Level-7) in S&T Dept. over S.E. Railway.

In order to Standardize the Syllabus for conducting the Selection through CCBT, the syllabus as enclosed has been prepared for probable candidates of the category of Ex-Cadre post Safety Counsellor (Level-7) in S&T Dept. over South Eastern Railway. This may be circulated to all concerned so as to enable all the probable candidates to prepare themselves for the forthcoming examinations.

This has the approval of the concerned HOD.

You are therefore requested for the wide circulation of the same and it is also available on the website- [www.ser.indianrailways.gov.in](http://www.ser.indianrailways.gov.in) .

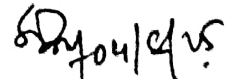
Encl: - As above.



(Satyajit Roy)  
Asstt. Personnel Officer (HQ)  
for **Pr. Chief Personnel Officer**

Copy forwarded for information to the: -

1. Secy. to GM for kind information of GM
2. PS to PCSTE for kind information of PCSTE
3. PS to PCPO for kind information of PCPO
4. CSE/CCE/CSTE(Proj)/CPO(A)/GRC
5. Dy. CSTE(Proj)/Dy. CPO(HQ)/GRC
6. Sr. DSTE (ADA/CKP/KGP/RNC)
7. APO(HRMS)/APO(Ruling)/GRC
8. OS/HRMS-for uploading in the Railway website



for **Pr. Chief Personnel Officer**

# Syllabus for the post Safety Counsellor (S&T)

## **A. General:**

1. General knowledge and current affairs pertaining to Railway and others.
2. Basic English: Drafting letters and preparation reports
3. General Arithmetic and Algebra like ratio and proportion, time and work, speed and distance, percentage, average, profit loss & discount etc.
4. Rajbhasa Rules
5. Safety Inspections

## **B. Technical:**

### **1. Mechanical Signalling :-**

- i. Roding and wire transmission etc, different foundation and erection of Signal posts, Drawing and specification, HPK locks, Electrical Detectors.
- ii. SIP, R/D & SWR preparation and checking of Engg. Plan.
- iii. Schedule of dimensions.

### **2. General Rules :-**

Basic concept of signaling, G&SR and SEM, Accident, Disaster management, opening of works, CRS sanction, periodical testing and overhauling, duties of Inspectors, Definition, isolation, overlaps, Braking distance, sighting distance, class of stns, standard of interlocking, section capacity, tool kits, safety rules and observance of precautions abbreviations etc.

### **3. Electrical Signalling, Block & General :-**

- i. CLS signal units, cable details, cable testing, cable installation, selection table, signal control circuits, route indicators, indication, electric locking of points and signal lever, routes, sectional route release, slot circuits, cross protection, crank handle interlocking, siding control circuits, L/C gate circuits, C/On, shunt signal.
- ii. Principles of PI/RR/MA/CLs, maintenance and installation.
- iii. Principles of modern signaling
- iv. Maintenance of DG Sets, power supply system, battery chargers, inverters, voltage stabilizers, IPS, data loggers, LED lit Signals, etc.
- v. Basic principles of electronics.



4. Tracks circuits & Relays: -

Types of relays & Track-circuits, installation, adjustments and maintenance of track circuits, block joints and other insulations, secondary cell, primary cell, Battery charging, solar panel and modules, parameters, modern track circuits etc.

5. Point machines: -

Types, parameters, essentials, installation and maintenance and controlling circuits of various types of point machine, ground connections, low voltage / high voltage, point contactor units, Safety features, etc.

6. Block: -

DLBI (SGE, UFSBI), TLBI and its circuits, safety features, installation and maintenance with parameters, overhauling and its schedules, power supply system, System of train working and block manual related to Signalling.

7. Miscellaneous: -

- i. Essential of absolute Block working
- ii. IBS
- iii. Axle counter (SSDAC & MSDAC)
- iv. Electronic Interlocking
- v. Electrical Lifting Barrier
- vi. Data logger & networking
- vii. Digital Electronics
- viii. Earthing
- ix. Lightning protection arrangement

8. Trolley Rules: -

Trolley rules including their protection.

ADP