

दक्षिण रेलवे/SOUTHERN RAILWAY

No.P(R)673/Training/Vol.IV

प्रधान कार्यालय/ Headquarters Office कार्मिक शाखा/ Personnel Branch चेन्नै/Chennai - 600 003 दि./ Dated:23-11-2018

पी बी सी सं/ PBC No: 238 / 2018

आर बी ई सं/RBE No. 168 / 2018

All PHODs / DRMs / CWMs / CEWE / CAO / CPM / Dy.CPOs / Sr.DPOs / DPOs / SPOs / WPOs / APOs of HQ / Divisions / Workshops / other Units, etc.,

(As per mailing list -'A')

विषय/Sub: Introduction of refresher course for Helper / Signal and revision of the Foundation course for promotee Signal Maintainers..

A copy of Railway Board's letter No.E(MPP)2018/3/7 dated 30-10-2018 (RBE No. 168 / 2018) alongwith its enclosures (Annexure 'A' & 'B') on the above subject is enclosed for information, guidance and necessary action.

(V.ŞRINIVASAN)

वरिष्ठ कार्मिक अधिकारी/नियम Senior Personnel Officer/Rules

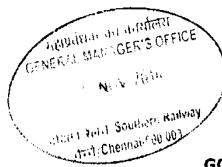
For Principal Chief Personnel Officer

संलग्न/Encl: as above

प्रतिलिपि/Copy to: The Genl Secy / SRMU

The Genl Secy / AISCSTREA The Genl Secy / AIOBCREA

The Genl Secy / NFIR





GOVERNMENT OF INDIA MINISTRY OF RAILWAYS RAILWAY BOARD

RBE No. 168/2018

New Delhi, Dated: 2010.2018

No.E(MPP)/2018/3/7

The General Managers,
All Indian Railways and Production Units,

The Director
Indian Railway Institute of Signal Engineering &
Telecommunication
Secunderabad

Sub: Introduction of refresher course for Helper/Signal and revision of the Foundation course for promotee Signal Maintainers.

In view of fast technological development in signaling field in Railways, a refresher course for Helper/Signal has been proposed.

- 2. As per existing provision, Helper/Signal are imparted 4 weeks (24 days) of initial/induction training only and no pre-promotional and refresher training.
- 3. Ministry of Railway in consultation with the Signal Directorate, has decided to introduce 2 (two) weeks Refresher Course for Helper/Signal after a gap of 5 years, apart from 4 weeks of Induction/Initial course. The course content for training is enclosed herewith (Annexure A).
- 4. Further, the Foundation course for promotee Signal Maintainers has been reduced from 12 weeks to 8 weeks. The course content for training is enclosed herewith (Annexure B).

DA: As above.

(Mahendra Kumar Gupta)
Director (MPP)
Railway Board

(Annexure-A)

Refresher Course for Helper/Signal

Item	Details		Allotted Hours
1	Registration		2
2	Theory		35
<u> </u>	Practical		18
4	Audio Visual		4
5	Study Tour/Local Visit		4
6	Theory Examination		1
7	Practical Examination		2
		TOTAL	66 (Two Weeks)

THEORY

5. NO.	Subject	Aliotted Hours
1	Symbol and Meaning of Letters	1
2	Cleanliness, Personal safely, Fire Prevention & First Aid	2
3	Measuring Instrument & Portable Tools	3
4	Basic Electricity and Magnetism, Power Equipments, IPS, Cells & Battery, D.G. Set	4
5	Safety in Train Operation, Schedule of Dimensions & Disaster Management	3
6	Signalling Relays and Cables	3
7	D.C. Track Circuit	3
8	Color Light Signalling, LED aspects, Axle Counter, Electrical operated lifting Barrier	5
9	Signalling in RE area	2
10	Point Machine	3
11	Introduction to Block Instrument (Single line, Double line)	3
12	Introduction to Relay Interlocking, Electronic Interlocking	3
	TOTAL	35

<u>Practical</u>

S.NO	Subject	Allotted Hours
1	Cells, Battery, Chargers, IPS, D.G. Set	3
2	Measuring Instruments& Portable Tools	2
3	Signalling Relays	2
4	D.C. Track Circuit	2
5	Color Light Signalling, LED aspects, Axle Counter	3
6	Point Machine	2
7	Single & Double line Block Instrument	2
8	Level crossing gates	2
	TOTAL	18

AUDIO VISUAL

S. NO.	Subject	Allotted Hours
1	Point M/C, LED Signal	2
2	Track Circuit	2
	TOTAL	4

COURSE MODULE NO.		SNT-10	PRACTICAL HOURS		83
DURATION		08 WEEKS	THEORY HOURS		158
TOTAL	HOURS	264	JOINING,EXAN	M,VIVA,LOCAL	23
, ,				THEORY H	OURS
S.NO.	CONTENTS	(THEORY)	ST CODE NO.	Existing	Revised
1	Measuring Instruments		3		2
2	Power Eqiupment Cells & Batt	ery, IPS,	4	18	12
3	Basic Electricity & Magnetism		5	18	6
4	Safety in train operation & Dis of dimension, Personal Safety,	-	6	18	10
5	Signalling Cables		8		3
6	Basic concept of signalling		15	24	18
. 7	Orthodox Mechanical Sig.		16	10	2
8	Reverser, Lever Lock, CKT cont	roller Arm and light repeater	18	18	2
9	Inter slotting EKT,EPD		19	18	2
10	Relays		20	20	6
11	Track Circuit		21	20	12
12	Solar Panel		22		2
13	Color Light Signalling, LED aspects, D.G. Set		23	18	18
14	Point Machine		24	12	10
15	Axle Counter & IBS		26		8
16	Single line block instrument		28		6
17	Double line block instrument		29	34	6
18	Signalling in RE area & Installa	tion practices	30		8
19	Automatic Signalling System		31		6
20	Introduction to Relay Interlock	ting	34		3
21	ВРАС	BPAC			3
22	Introduction to Electronic Interlocking & Data Logger		37		3
23	UFSBI *				3
24	Documentation Signal failure I Disconnection*	Register, History Book,			2
25	Electric Lifting Barrier*				2
26	Earth Leakage Detector(ELD)*				2
27	Domino Panel*	, , , , , , , , , , , , , , , , , , ,			1
- <u> </u>		TOTAL	1	228	158

^{*}This is in addition to the standard syllabus

	Practical	Allotted Hours
1	Study of AVO Meter, Multimeter, Megger	2
2	Power Equipment Cells & Battery, IPS, D.G.Set, Solar Panel	9
3	D.C. Track Circuit	6
4	D.C. cut section track circuit	6
5	Single& Double line Block instrument (Study, working,	9
6	Signalling Cable	3
7	Study of colour light signal, LED aspects,	. 4
8	ELD, Maintenance of earth	3
9	Axle Counter	4
10	Relay Interlocking & Panel Interlocking	4
11	Electronic Interlocking	4
12	Study & Adjustment of Lifting Barrier Gate (Electrical & Mechanical)	9
13	UFSBI	3
14	BPAC	3
15	Data Logger	5
16	Point Machine	9
	TOTAL	83