



EAST COAST RAILWAY

प्रमुख मुख्य कार्मिक अधिकारी का कार्यालय/
Office of the Pr.Chief Personnel Officer
द्वितीय तल, - 751 017
Rail Sadan, IInd Floor, Bhubaneswar-751 017

स्थापना क्रमांक/ Estt. Srl. No.202/2018
पूतरे/कार्मिक/आर/ECOR/Pers/R/Trg.

RBE No-168/2018
Date: 14.11.2018

सेवा मे,
सभी प्रमुख विभागाध्यक्षों/समन्वयक विभागाध्यक्षों, पू त रे/भुवनेश्वर
मं.रे.प्र/व.मं.का.अधिकारी/मं.का.अधिकारी-खोरधारोड,वालातेरू, संबलपुर,
मु.कारखाना प्रबंधक/कारखाना कार्मिक अधिकारी- मंचेश्वर, अतिरिक्त रजिस्ट्रार/रेल दावा अधिकरण,
व.का अधिकारी(नि)/भुवनेश्वर
महा सचिव/इकोर थ्र. कां., महा सचिव/इकोर थ्र. यू.,
महा सचिव/एआई ओ बी सी आर ई ए, महा सचिव/ ए आई एस सी एस टी आर ई ए

Sub: Introduction of refresher course for helper/Signal and revision of the
Foundation course for promote Signal Maintainers .

उपर्युक्त विषय पर बोर्ड पत्र सं E(MPP)2018/3/7 दिनांक 30.10.2018 की
प्रतिलिपि सूचना, मार्गदर्शन एवं आवश्यक कार्रवाई हेतु अग्रेषित है।

A copy of the Board's Lr.No--E(MPP)2018/3/7 dated 30.10.2018 on the
above quoted subject is forwarded herewith for information, guidance and necessary
action.

Encl: As above,

(R.C. Sethy)

Asstt. Personnel Officer(HQ)
For Pr. Chief Personnel Officer

प्रतिलिपि प्रेषित/Copy to :

- 1) महाप्रबंधक के सचिव/पूर्व तट रेलवे, भुवनेश्वर
- 2) मुकाधि/मुकाधि(प्रशा.), उप म.प्र, अध्यक्ष(रेलवे भर्ती प्रकोष्ठ)
- 3) उप मुख्य प्रबंधक(सू.प्रौ), उप मुकाधि(औ.सं.एवं कल्याण), वकाधि(इंजी.)
- 4) वकाधि(मुख्या.), वकाधि(स्टाफ), वकाधि(राज. एवं न्याया.)
- 5) मुकाधि के निजी सचिव/सहा.कार्मिक अधि. (मुख्या.-1), सहा.कार्मिक अधि. (कल्याण),
सहा.कार्मिक अधि. (बिल), सहा.कार्मिक अधि. (भर्ती)

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RB-4143
क.सं./Sl.No.....
दिनांक/Date 5/11/18
आक्षर/Initial.....



GOVERNMENT OF INDIA
MINISTRY OF RAILWAYS
RAILWAY BOARD

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Ceo
9/11/18

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

RBE No. 168/2018
New Delhi, Dated: 30.10.2018

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.

26/11/18
(Mahendra Kumar Gupta)
Director (MPP)
Railway Board

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12/11

Refresher Course for Helper/Signal

(Annexure-A)

Item	Details	Allotted Hours
1	Registration	2
2	Theory	35
3	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

S. NO.	Subject	Allotted Hours
1	Symbol and Meaning of Letters	1
2	Cleanliness, Personal safety, 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

Practical

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

NAME OF COURSE:- FOUNDATION COURSE FOR PROMOTEE's SIGNAL MAINTAINER

(ANNEXI

COURSE MODULE NO.		SNT-10	PRACTICAL HOURS	
DURATION		08 WEEKS	THEORY HOURS	
TOTAL HOURS		264	JOINING, EXAM, VIVA, LOCAL VISIT etc	
				THEORY HOURS
S.NO.	CONTENTS(THEORY)	ST CODE NO.	Existing	R
1	Measuring Instruments	3		
2	Power Equipment Cells & Battery, IPS,	4	18	
3	Basic Electricity & Magnetism	5	18	
4	Safety in train operation & Disaster Management, Schedule of dimension, Personal Safety, Prevention of Fire	6	18	
5	Signalling Cables	8		
6	Basic concept of signalling	15	24	
7	Orthodox Mechanical Sig.	16	10	
8	Reverser, Lever Lock, CKT controller Arm and light repeater	18	18	
9	Inter slotting EKT, EPD	19	18	
10	Relays	20	20	
11	Track Circuit	21	20	
12	Solar Panel	22		
13	Color Light Signalling, LED aspects, D.G. Set	23	18	
14	Point Machine	24	12	
15	Axle Counter & IBS	26		
16	Single line block instrument	28		
17	Double line block instrument	29	34	
18	Signalling in RE area & Installation practices	30		
19	Automatic Signalling System	31		
20	Introduction to Relay Interlocking	34		
21	BPAC	36		
22	Introduction to Electronic Interlocking & Data Logger	37		
23	UFSBI *			
24	Documentation Signal failure Register, History Book, Disconnection*			
25	Electric Lifting Barrier*			
26	Earth Leakage Detector(ELD)*			
27	Domino Panel*			
		TOTAL	228	

*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