REPORT OF RAILWAY KAUSHAL VIKAS YOJANA ATTENDED AND COMPLETED BY JOGESHWARI EDUCATION SOCIETY'S COLLLEGE OF COMMERCE SCIENCE AND INFORMATION TECHNOLOGY

This Program is an entry level Skill Development Training Program in various trades i.e. AC Mechanic, Carpenter, CNSS, Computer Basics etc. This training helps candidates in getting an employment and becoming self employed too. It is introduced by Indian Government. The Ministry of Railways took up the responsibility of organizing this Rail Kaushal Vikas Yojana under which 50,000 young people got instructions under the training.

The training program was for 100 hours. The dates were 8th May to 27th May 2023. 16 students of B.Sc. IT registered under this training program from which 9 students completed the training and were awarded the certificate.



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JOGESHWARI EDUCATION SOCIETY'S
COLLEGE OF COMMERCE SCIENCE
& INFORMATION TECHNOLOGY
Caves Road, Jogeshwari (E), Mumbai-400 060.

SYLLABUS OF TRAINING OF RAILWAY KAUSHAL VIKAS YOJANA

Trades Details Summary

Trade Name	Description	
Electronics & Instrumentation	To give Technical Training in Electronics &	Duration (Days)
	Instrumentation trade	18

Theory (Electronics & Instrumentation)

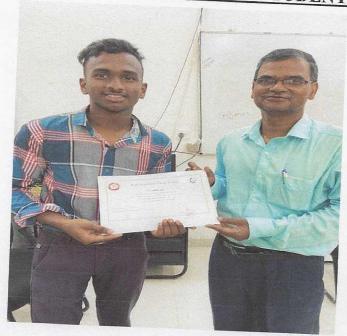
Topic	Theory (Electronics & Instrumentation) Keylearning Outcomes		
Registration of participants	*Self-declaration of Covid 10	Equipment Required	Duratio
Material Handling	Movement of Raw Markets		2:0
Electronia	Movement of Raw Material. Movement of Finished Material. Wasts Segregation. Cleanliness. Stacking.		2:0
Knowledge about PPEs	& What is Safety? Awareness about General Safety. Electronics Safety. Use of PPEs. Advantages of Safety. Do's & Don'ts.	f Pour B	2.0
Introduction of Electrical terms	Basic terms such as electric charges, Potential difference, Voltage, Current Resistance, Basics of AC & Do	Power Presentations	2:0
Indiana di Americana di America	Brief about Electronics To a land semiconductor properties.	1	2:0
Introduction of Electronics	Capacitance Instruments. Knowledge about Resistance, Inductance &	Power Presentations	1:0
Passive Elements	Resistors; types of resistore, specific use, color-coding. Equivalent Resistance of series parallel circuits. Principles of induction, inductive reactance. Types of inductors, applications and energy storage concept. Capacitance and Capacitive Reactance. Impedance. Types of capacitors, applications. Dielectric constant. Significance of Series parallel connection of capacitors.	Power Point Presentations	2:0
Semiconductors and pplications	Semiconductor materials. PN Junction, Forward and Reverse biasing of diodes. Different diodes, Rectifier configurations, Filter components and their role in reducing ripple. Working principles of Zener diode, varactor diode, their applications. Working and application of LED, IR LEDs, Photo diode,photo transistor, their applications.	Power Point Presentations	3:0
ower supply	Regulated Power supply using 78XX series, 79XX series. Op-amp regulator, 723 regulator, (Transistorized & IC based). Voltage regulation.	Power Point Presentations	1:30
ransistors and its pplications	Construction, working of a PNP and NPN Transistors, purpose of E, B & C Torminals. Need for Biasing of Transistor. Different types of biasing, various configurations of transistor (C-B, C-E & C-C), their characteristics and applications. Transistor applications as switch and amplifier. Construction of FET & JFET, difference with BJT.	Power Point Presentations	3:0
peration Amplifier	Block diagram and Working of Op-Amp, importance, advantages and applications. Schematic diagram of 741, symbol.	Day 5	
gital electronics	Introduction to Digital Electronics. Difference between analog and digital signals. Number systems (Designals)	Power Point Presentations Power Presentations	2:0
	Gates and their truth tables, Introduction to electrical and the		3:0
le all a	Introduction to electrical and electronic measuring instruments. Basic principle and parts of simple meters. MC and MI meters. Range extension, need of calibration. Characteristics of meters and errors in meters. Multi meter, use of meters in different circuits. Use of CRO, Function generator, LCR meter	Power Point Presentations	3:30
noth- 0	Work Ethics, Personal Financial Planning. Health.	Power Point Presentations, White Board	2:0
4 4 4	pasorumates, Peers, Superiors, Customers,		2.0
	Cut. Bleeding. Faint. Bandage. Resuscitation - Australia	Audio-Video	3:0
	, Amburance,	Audio-Video	2:0



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PHOTOS OF STUDENTS COLLECTING CERTIFICATES









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Rail Kaushal Vikas Yojna



Certificate

This is to certify that Mr. Kartik Mangesh Chandoskar

(Aaithar No. N/A) has successfully cleared assessment for the role of

Trade Electronics & Instrumentation - Entry Level

Training duration from 08-05-2023 to 27-05-2023

Institute Name: ELECTRICAL TRAINING CENTRE VIRAR

Date



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