



GOVERNMENT OF INDIA
MINISTRY OF SKILL DEVELOPMENT & ENTREPRENEURSHIP
DIRECTORATE GENERAL OF TRAINING

COMPETENCY BASED CURRICULUM

ELECTRICIAN

(Duration: Two Years)

Revised in July 2022

CRAFTSMEN TRAINING SCHEME (CTS)

NSQF LEVEL- 4



SECTOR – POWER



Directorate General of Training

ELECTRICIAN

(Engineering Trade)

(Revised in July 2022)

Version: 2.0

CRAFTSMEN TRAINING SCHEME (CTS)

NSQF LEVEL- 4

Developed By

Ministry of Skill Development and Entrepreneurship
Directorate General of Training

CENTRAL STAFF TRAINING AND RESEARCH INSTITUTE

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		operation (i) delta-delta, (ii) delta-star, (iii) star-star, (iv) star-delta by use of three single phase transformers. (6 Hrs.) 104. Perform testing of transformer oil. (6 Hrs.) 105. Practice on winding of small transformer. (8 Hrs.) 106. Practice of general maintenance of transformer. (5 Hrs.)	single phase transformers for three phase operation. Types of Cooling, protective devices, bushings and termination etc. Testing of transformer oil. Materials used for winding and winding wires in small transformer. (06 Hrs.)
ENGINEERING DRAWING: 40 Hrs.			
Professional Knowledge ED- 40 Hrs.	Read and apply engineering drawing for different application in the field of work.	ENGINEERING DRAWING Introduction to Engineering Drawing and Drawing Instruments – <ul style="list-style-type: none">● Conventions● Sizes and layout of drawing sheets● Title Block, its position and content● Drawing Instrument Free hand drawing of – <ul style="list-style-type: none">● Geometrical figures and blocks with dimension● Transferring measurement from the given object to the free hand sketches.● Free hand drawing of hand tools. Drawing of Geometrical figures: <ul style="list-style-type: none">● Angle, Triangle, Circle, Rectangle, Square, Parallelogram.● Lettering & Numbering – Single Stroke Dimensioning Practice <ul style="list-style-type: none">● Types of arrowhead Symbolic representation <ul style="list-style-type: none">● Different electrical symbols used in the related trades Reading of Electrical Circuit Diagram Reading of Electrical Layout drawing	
WORKSHOP CALCULATION & SCIENCE: 30 Hrs			
Professional Knowledge WCS- 30 Hrs.	Demonstrate basic mathematical concept and principles to perform practical operations.	WORKSHOP CALCULATION & SCIENCE Unit, Fractions Classification of unit system Fundamental and Derived units F.P.S, C.G.S, M.K.S and SI units Measurement units and conversion Factors, HCF, LCM and problems	