

Preface to NSQF (Level-4) Compliant Edition

Directorate General of Training (DGT) under the Ministry of Skill Development & Entrepreneurship, being the apex organization for development and coordination of vocational training at the national level, undertakes steps from time to time to improve its various aspects in line with changing market and industry requirements. The curriculum of each CTS trade has been reoriented with appropriate National Skill Qualification Framework (NSQF) level. Revised curriculum for Electrician trade has been made NSQF Level 4 compliant under Power sector. Electrician is one among the top couple of most popular trades delivered nationwide through a large network of Industrial Training Institutes. The duration of training for this trade is two years. During this duration the trainees are trained on subjects Professional Skill, Professional Knowledge, Engineering Drawing, Workshop Science & Calculation and Employability Skills.

In keeping these latest changes, this volume has been updated and enlarged to be fully in line with the latest curriculum of Electrician trade. It contains a large number of appropriately and systematically arranged Practicals in line with the latest curriculum. **In this revised edition, new practical exercises on new module - Electric Vehicle (EV) as per latest syllabus has been provided for the benefit of students.** Thus this book, complete in all respects fully serve the needs of instructors and especially the trainees to thoroughly understand and learn and prepare for the trade test with confidence. The latest DGT prescribed curriculum has been strictly followed.

It is hoped that our effort will be able to fulfil the requirements of trainees and instructors. Suggestions from our esteemed readers for further improvement of this volume are welcome.

— Author

Dedicated to my parents



Smt. Gonella Venkata Lakshmi

(22-08-1930 to 08-12-2011)

Noble, Kind, Broad-minded, Large-hearted,

Symbol of sacrifice

who, besides up-bring her own children in hard conditions and despite being widowed at early stage of her life, helped many poor, economically backward, with food, clothes, school fees, irrespective of cast and religion.

Shri. Gonella Suryanarayana Murthy

(1916–1960)

He sacrificed his life for uplifting of school students providing financial assistance, food and clothes, besides giving free coaching to vocational trainees.

(G.V. Ramana Murthy)

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