



STOP AT INTERSECTION



STOP POLICE



NO LEFT TURN



NO RIGHT TURN

SAFETY AND HIGHWAY CODES

A GUIDE TO MOTOR VEHICLE DRIVING

IDRIS, Abubakar Mohammed
Industrial and Technology Education Department
Federal University of Technology, Minna

MUSTAPHA, Aliyu
Industrial and Technology Education Department,
Federal University of Technology, Minna

© Idris, A. M. & Mustapha, A. 2019.

Idris Abubakar Mohammed
Industrial and Technology Education Department,
Federal University of Technology, Minna

Mustapha Aliyu
Industrial and Technology Education Department,
Federal University of Technology, Minna

All rights reserved. No part of this book may be reprinted, reproduced, stored in a retrieval system or transmitted in any form or by any means; electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the authors or publisher.

ISBN 978-978-971-904-4

Printed by



UNIVERSITY PRESS LTD
Usmanu Danfodiyo University,
Sokoto, Nigeria



STOP AT INTERSECTION



STOP POLICE



NO LEFT TURN



NO RIGHT TURN

SAFETY AND HIGHWAY CODES

A GUIDE TO MOTOR VEHICLE DRIVING

IDRIS, Abubakar Mohammed

Industrial and Technology Education Department
Federal University of Technology, Minna

MUSTAPHA, Aliyu

Industrial and Technology Education Department,
Federal University of Technology, Minna

© Idris, A. M. & Mustapha, A. 2019.

IDRIS Abubakar Mohammed

Industrial and Technology Education Department,
Federal University of Technology, Minna

MUSTAPHA Aliyu

Industrial and Technology Education Department,
Federal University of Technology, Minna

All rights reserved. No part of this book may be reprinted, reproduced, stored in a retrieval system or transmitted in any form or by any means; electronic, mechanical, photocopying, recording or otherwise without the prior written permission of the authors or publisher.

ISBN 978-978-971-904-4

Printed by



UNIVERSITY PRESS LTD

Usmanu Danfodiyo University,
Sokoto, Nigeria

Preface

A comprehensive knowledge of Nigeria road signs and pavement markings is compulsory for all road users to ensure a smooth and safe traffic flow. This book titled “SAFETY AND HIGHWAY CODES: A GUIDE TO MOTOR VEHICLE DRIVING” is intended to serve as a guide to meet the desperate needs and expectations of all road users, highway patrol bodies, Vehicle Inspection Officers (VIO), Federal Road Safety Corps (FRSC) officers, mechanical/automobile engineers, teachers, technicians, technologists and students in the Colleges of Education, Monotechnics, Polytechnics and Universities. It is assumed that these users have the requisite educational and engineering experiences necessary to properly implement motor vehicle driving procedures, guidelines and criteria. This book utilizes established analysis techniques and design standards from recognized technical associations that are listed as references in the relevant sections. Four companion documents listed below were used for the compilation, viz: Nigeria Highway Code (2017), Consultant Procedure Manual (2014); Standard Drawings (2014); Traffic Control Devices Manual (2014) and Standard Specifications (2014). This book therefore contributes towards providing all road users with a practical companion with respect to motor vehicle driving. It is expected that by the help of this book, there should be a reduction in the number of road traffic crashes/ accidents.

The scope of the “SAFETY AND HIGHWAY CODES: A GUIDE TO MOTOR VEHICLE DRIVING” is comprehensive and divided into four parts which are further divided into chapters and each with appropriate sub-headings. The parts are: Part 1: Driving foundation; Part 2: Roads; Part 3: Traffic and Part 4: Road traffic accidents/ crashes.

Part 1 discussed the driving techniques, motor vehicle controls and starting operations and qualities of a good driver. Part 2 also discussed the road signs, road markings, road junctions, lane and lane rules, lane discipline, carriageways and carriageways rules and driving under special conditions. Part 3 treated the traffic control and other relevant institutional bodies, traffic regulations and road

traffic light signals. Road traffic accidents/ crashes: causes and prevention and general duties for drivers were discussed in Part 4. Review activities were included for personal evaluation while most discussions were of practical nature.

IDRIS, A. M. & MUSTAPHA, A.

Acknowledgements

The authors wish to acknowledge with profound appreciation, the contributions of the reviewers who offered valuable suggestions for improving the text, particularly RC Raji Habib Egigogo of the Federal Road Safety Corps (FRSC) RS7.2 Niger Sector Command, DSP Gabriel Godwin Ameh, Jankaro Salihu Iliya and Bake Cornelius of the Vehicle Inspection Office (VIO) Minna, Niger State Command for their tremendous support .

While working on the completion of this book, we appreciate all the lecturers in the Department of Industrial and Technology Education, especially those in Automobile Technology: Dr. Rufai Audu, Dr. Abdulkadir Mohammed, Mr. Abutu Francis and Mr. Benjamin Ekhalia Joseph. The authors offer their heartfelt gratitude for aiding to keep the wheels of automobiles in motion.

We are extremely grateful to Malam Nma Abdullahi Sallah for his extensive proofreading and Muhammad Nura Jimada for his worthy photographic works. Our profound appreciation is also extended to the Staff of Usmanu Danfodiyo University Sokoto University Press LTD.

It would be great injustice to miss out our families for providing a comforting and supportive environment to ease the pressures of work on the manuscript.

Finally, all praise be to Almighty God, Who grant the strength to accomplish this task.

Forward

“SAFETY AND HIGHWAY CODES: A GUIDE TO MOTOR VEHICLE DRIVING” is made a superb and understandable presentation of defensive motor vehicle driving, road signs and markings, traffic and vehicle maintenance laws, traffic control, other relevant institutional bodies, road traffic crashes/accidents: causes and prevention.

Most road users are wanting of serious traffic offenses whereby drivers of vehicles disregards the rules of the road, driving very dangerously, causing accidents and/ or damages of lives and properties. As a result of this, therefore, the authors have enormously put in words of one single syllable the techniques and laws regarding vehicle driving by chewing over in details the vital steps for a defensive driving.

This book is a valid material, in face and content, for the students and lecturers in the Colleges of Education, Monotechnics, Polytechnics and Universities as well as engineers, technicians, technologists; Vehicle Inspection officers (VIOs); Federal Road Safety Corps (FRSC) officers and all road users who want to have a good understanding of defensive motor vehicle driving. Finally, and most importantly, presentation and coherent exploration of the contents make the book very distinctive and user friendly.

Professor S. A Ma’aji
Department of Industrial and
Technology Education
Federal University of Technology Minna
Niger State

Contents

Preface	iv
Acknowledgements	vi
Forward.....	vii
Contents	viii
PART ONE: DRIVING FOUNDATION	1
CHAPTER ONE.....	2
Driving Techniques	2
CHAPTER TWO.....	17
Motor Vehicle Controls and Starting Operations	17
CHAPTER THREE	25
Qualities of a Good Driver	25
PART TWO: ROADS	29
CHAPTER FOUR	30
Road Signs	30
CHAPTER FIVE	41
Road Markings	41
CHAPTER SIX.....	47
Road Junctions.....	47
CHAPTER SEVEN	51
Lanes and Lane Rules	51
CHAPTER EIGHT	55
Lane Discipline.....	55
CHAPTER NINE	59
Carriageways and Carriageways Rules	59
CHAPTER TEN	62
Driving Under Special Conditions	62

PART THREE : TRAFFIC	67
CHAPTER ELEVEN	68
Traffic Control and Institutional Bodies.....	68
CHAPTER TWELVE.....	73
Traffic Regulations	73
PART FOUR : ROAD TRAFFIC ACCIDENTS/ CRASHES	
.....	78
CHAPTER FOURTEEN	79
Road Traffic Accidents/ Crashes: Types, Causes and Prevention	
.....	79
CHAPTER FIFTEEN	90
General Guides for Drivers.....	90
BIBLIOGRAPHY	94