

## CHAPTER ONE

### 1.0 INTRODUCTION

#### 1.1 The Purpose of the Curriculum

This curriculum states basic principles of driver training in Kenya.

The curriculum is designed for the training of drivers of all vehicles, and it comprises plans for training of drivers. All drivers and riders in Kenya have to undergo this training and must pass the test to be allowed to drive or ride a motor vehicle. The principle adopted in developing this curriculum is that a set number of units have been defined for each module. There are eight modules which translate to respective categories of Licenses. The first four units must be done by all drivers before embarking on additional specific units to meet requirements for each module as defined in this curriculum.

Within the framework of this curriculum, the main reference document will be the Kenya Learner Drivers' Handbook. The handbook is built on the learning objectives for driver training and focuses on both theory and practical driving.

Traffic crashes constitute social and economic challenges nationally, due to all those who are killed and injured and the attendant economic loss. Human error has been cited as the major contributor to road crashes. The curriculum seeks to mitigate this by improving the competence and discipline of drivers by addressing the knowledge, skills and attitude gap.

The education and training of drivers of motor vehicles therefore, is an important step towards improving the overall driving skills of drivers. Those who are responsible for driver training in Kenya MUST comply with this approved curriculum.

This document is arranged in 10 chapters, for a total of 9 training modules.

**Chapter 1:** Common Core Units

**Chapter 2 :** MODULE 1 - MOTORCYCLES

**Chapter 3:** MODULE 2 - LIGHT VEHICLES

**Chapter 4:** MODULE 3 – PROFESSIONAL LIGHT VEHICLES

**Chapter 5:**MODULE 4- PUBLIC SERVICE VEHICLES

**Chapter 6:** MODULE 5-MOTORCYCLE TAXI AND THREE WHEELERS

**Chapter 7:**MODULE 6 -TRUCK DRIVERS

**Chapter 8:**MODULE 7-SPECIAL PROFESSIONAL DRIVING LICENSE

**Chapter 9:** MODULE 8- INDUSTRIAL, CONSTRUCTION AND AGRICULTURAL VEHICLES

## **1.2 The General Goals of Driver Training**

Driver Training aims to give the learner driver the proper knowledge, skills and attitudes in order to develop the necessary driving competence and discipline.

General goals;

- i) A safe, reliable and efficient road transport system.
- ii) Reduction in road crashes and loss of life.
- iii) Compliance with the traffic laws, rules, regulations and other provisions.
- iv) Promote safe road use culture demonstrated by road courtesy and care for vulnerable road users.
- v) Promote road worthiness of vehicles.

## **1.3 The Traffic System**

It is valuable to adopt an analytical view in the field of traffic safety. This analytic view is coherent with the framework of the Traffic System, which is made up of the vehicle, the road user, the road and its environment and the traffic control system.

Road crashes are caused by errors on the part of the road users, deficiencies on the vehicles, the road design and condition. Sometimes they are caused by lack of co-ordination between various components of the Traffic System.

Applying the framework of the Traffic System, will make it possible to analyze the causes of traffic crashes and put forward counter measures systematically.

Within the context of the Traffic System, one has to look at the driver as an operator of the vehicle in a complex traffic environment. Behind the wheel the driver's tasks are to:

- i) Collect and process information from the road, the traffic and the vehicle's behavior.
- ii) Make correct decisions about appropriate control actions.
- iii) Execute the actions skillfully.
- iv) Complying with the existing traffic laws.

The driver has to assess the results of the actions and respond adequately to the new situation.

Driving is in many ways a social skill, in the sense that co-operation between road users is important for the benefit of traffic safety.

## **1.4 The Driver Training General Requirements.**

### **1.4.1 Learning Approach**

Driver training, like any other educational activity, has to be based on well-known pedagogical and psychological principles. Sound judgment, developed by the driving instructors and driving examiners over the years is also essential.

The driver's tasks, previously mentioned, constitute the contents of the Driver's Code that will be the cornerstone in Driver Training. The Driver's Code consists of these three elements:

- i) Observe
- ii) Decide, and
- iii) Act

The aim of the Driver's Code is to:

- i) Establish a method for coping with any traffic situation systematically.
- ii) Establish a disciplined road behavior, which is based on awareness of the hazards thus being a prerequisite for defensive and environmental friendly driving.

### **1.4.2 Use of Licensed Schools and Instructors**

All driving lessons are to be learnt in a licensed driving school under the instruction of a qualified and licensed instructor.

### **1.4.3 Theory Lessons**

- a) Driving instructions shall include theory lessons based on this curriculum. A learner driver has to undertake and be examined in each unit within a module.
- b) The typical sequence of the driver-training program will be as follows:
- i) Introduction to driving.
  - ii) Fundamental driving rules.
  - iii) Model town.
  - iv) Human factors in driving.
  - v) Introduction to the class of vehicle.
  - vi) Motor Vehicle parts, instruments and controls.
  - vii) Basic vehicle control.
  - viii) Maneuvers on a yard under controlled traffic conditions.
  - ix) Maneuvers on the road under all traffic conditions.
  - x) Specific units depending on Module.
- c) By means of effective teaching methods, the driving Instructor will adjust the driver training program to the learner driver's individual qualifications and understanding in order to optimize the learning outcome.
- d) The school shall meet the time allocated in the curriculum
- e) Continuous assessment tests, shall be administered upon completion of at most 40 hours of learning, and shall be in the form of 50 multiple choice questions. A learner must answer at least 35 questions correctly to be deemed to have passed the test. The tests shall constitute 30% of the pass mark in the school's internal test which shall precede examination for issuance of certificate of competence prior to licensing. Records of each learners test answer sheets shall be maintained by the school for a period of 3 years.
- f) A learner shall only be deemed to have fulfilled the requirements of training under this curriculum upon attending at least 75% of the lessons. Every school shall maintain a register of attendance for each learner driver. Theory training may be provided online, provided an online attendance and assessment register is maintained.
- g) The level of performance regarding practical driving skills and theoretical knowledge is evaluated in the examination process.

#### **1.4.4 Practical training**

- i. The school shall ensure that the learner obtains a provisional driving license before driving.
- ii. The school shall test the learner driver on the first four units before arranging for issuance a provisional driving license.
- iii. A learner driver who fails in the test (b) above shall not be issued with the provisional driving license.
- iv. A learner driver shall be trained to drive in a yard and tested before being taken to drive on a public road.
- v. The school shall use the Kenya Learner's Driver Handbook as the main reference material.
- vi. The school must meet the time allocation requirements set out in the curriculum.
- vii. The school shall use both commentary driving and explain-act- comment techniques.
- viii. A learner driver has to attend 100 % of the classes to be deemed to have completed practical driving lessons.

#### **1.4.5 Practical test**

The practical test at the institution shall be divided into two, the yard test and the on-road test. Before the start of the test, the instructor shall explain how the test will be done and how the evaluation will be done.

- i. The learners have to be tested on a defined route.
- ii. The school shall maintain a record of the test routes used.

- iii. The learner driver must use commentary driving.
- iv. The Instructor shall examine using an assessment checklist.
- v. The school shall maintain the records of all assessment checklists for a period of 3 years.

### **1.5 Driving License and Driving Test**

The driving test consists of a theoretical and a practical component. The theoretical test shall consist of a continuous assessment test administered after every 40 hours of training and a final test at the end of all the units in a module. The test shall comprise of a minimum of 50 multiple-choice questions.

The practical test is taken in two parts:

- i. (Maneuver yard) test- The learner driver is tested in a training yard to evaluate his ability to maneuver under different set conditions.
- ii. A road test is conducted in a test route where the candidate has to negotiate most traffic situations in a skilled and safe manner.

A learner driver must pass the (Maneuver yard) test before proceeding to take the road test. A performance report is prepared for each driver. He/she must demonstrate skills in both theory and practical by attaining a pass mark of 70 %.

### **1.6 Examination**

#### **a) General Conditions:**

The following conditions shall be met by a school before presenting the learner drivers for examination in a driving test centre:

- i. A school shall not present for examination a learner who has not passed the school tests.
- ii. A school shall register the learners for the examination and submit to an examiner a School's test report with respect to each candidate. Only Learners who have attained a minimum aggregate score of 70% in the school final test shall be presented for examination.

#### **b) Failing to pass the examination**

A Learners who fails in an examination offered in a driver test centre shall be referred back the driving school for re-training, provided;

- i. That no Re-testing is done before the expiry of 21 days.
- ii. That a Learner who fails in theory examination shall be required to re-take the entire examination while one who fails a practical exam shall be required to re-sit the practical within a period not exceeding 6 months.
- iii. A candidate who fails to take the re-test shall be required to register a fresh and re-do the course.

### **1.7 Validity of Licenses**

- i. All Licenses shall be renewed annually for a period of 9 years. On the 10<sup>th</sup> year, the License holder shall be required to repeat the training and examination process, obtain a new certificate of competence and undergo a medical examination.
- ii. Holders of Professional Drivers Licenses shall be required to accumulate a minimum number of continuous development points, set by a Professional Body of drivers, annually as a condition for License renewal
- iii. Additionally, all drivers above the age of 60 years are shall be required to have a medical fitness report annually before renewal of their driving Licenses.

### **1.8 Driving License Categories**

#### **1.8.1 CATEGORY A**

##### **i. Category A1 (Moped)**

- Up to and including 50 C.C.
- Minimum age 16 years.
- No passenger.

**ii. Category A2 (light motorcycle)**

- Above 50 C.C.
- Minimum age 18 years.
- Maximum load 60 kg (for upto 400 C.C)
- Maximum 1 passenger
- 

**iii. Category A3 Motorcycle Taxi, Couriers and three-wheelers.**

- 100 C.C. and above.
- Minimum age 21
- Previous 1 year riding experience of A2
- Maximum load 100 kg (for up to 400 C.C)
- Maximum 1 passenger

**1.8.2 CATEGORY B**

**i. Category B (Light Vehicle)**

- Light vehicle (passenger car) or with a Gross Vehicle Weight (GVW) of maximum 3500 kg with one light trailer (not exceeding 750 kg)
- Not more than seven passengers.
- Minimum age 18 years.

**ii. Category B Automatic (Light Vehicle Automatic)**

- Light vehicle (passenger car) with a Gross Vehicle Weight (GVW) of maximum 3 500 kg with one light trailer (not exceeding 750 kg).
- Equipped with automatic gear box.
- Not more than seven passengers.
- Minimum age 18 years.

**iii. Category B Professional**

- Light vehicle (passenger car) with a Gross Vehicle Weight (GVW) of maximum 3,500 kg with one light trailer (not exceeding 750 kg).
- Equipped with manual or automatic gear box.
- Not more than seven passengers.
- Minimum age 21 years.

**1.8.3 CATEGORY C**

**i. Category C1 (Light Truck)**

- Light truck with a Gross Vehicle Weight (GVW) exceeding 3 500 kg and a maximum 7500 kg with maximum one light trailer (limited to not exceed 750 kg)
- Minimum age 22 years

**2 Category C (Medium Truck)**

- Heavy truck with a Gross Vehicle Weight (GVW) exceeding 7 500 kg with maximum one light trailer (limited to not exceed 750 kg)
- Minimum age 24 years

**3 Category CE (Heavy Truck with trailer)**

- Heavy truck with a Gross Vehicle Weight (GVW) exceeding 7 500 kg with heavy trailer or semitrailer.
- Articulated vehicles.

-Minimum age 28 years.

#### **1.8.4 CATEGORY D**

##### **i. Category D (Van)**

- Maximum 13 passengers.
- Minimum age 22years.

##### **ii. Category D1 (Mini Bus)**

- Between 14-32 passengers
- Minimum age 25 years.

##### **Category D2 (Large Bus)**

- 33 passengers and above.
- Minimum age of 30 years.

#### **1.8.5 CATEGORY E (SPECIAL PROFESSIONAL DRIVERS' LICENSE)**

- Minimum age 21years
- Completed 3 months driving practice with any vehicle classified under categories C1, C, CE, D, D1, D2 and licensed as **EC1, EC, ECE, ED, ED1, ED2** respectively.
- Class ED2 Licenses shall be endorsed for classes D1 & D while Class ECE Licenses shall be endorsed for C & C1

#### **1.8.6 CATEGORY G (INDUSTRIAL, CONSTRUCTION AND AGRICULTURAL PLANTS& EQUIPMENT)**

- Special types of Plants and Equipment for which special authorization is required from the authority before such plants can be registered for use.
- To operate such Plants and Equipment a driving License is a requirement
- Endorsement for Class G will be done on the driving License.

### **1.9 Basic/Common Units**

This section deals with parts of driver training that are mandatory for all drivers, independent of class of License. The topics in this section are grouped into four parts:

- i) Introduction to Driving
- ii) Fundamental driving rules.
- iii) Model town
- iv) Human factors in traffic

#### **1.9 General Objective of Driver Learning**

The learner rider must learn and get appropriate experience to be able to act as an insightful and competent driver with respect to safety, mobility and concern of other road users. The competence achieved has to be verified through a theoretical and a practical test before a License is issued.

#### **1.11 Specific Objectives of Driver Learning**

The knowledge, skills and abilities that should be gained and proven by the learner driver are of different kinds and on different levels. By the end of the driver education, the learner driver must (be able to):

**i. Know about;** meaning that he must be informed about driving to such an extent that his knowledge follows a more goal-oriented and specific training. (Objectives of this kind are included in the theoretical part of the driving test).

**ii. Point out and name;** meaning that he must be able to locate and name by generally used terms, for example, certain controls and instruments of the vehicle. (Objectives of this kind are included in both the theoretical and practical parts of the driving test).

iii.**Read and explain the meaning of;** meaning that he must be able to use, for instance, the instruments of the vehicle, explain and demonstrate what they indicate. (Objectives of this kind are included in the practical part of the driving test).

iv.**Check;** meaning that he must be able to inspect certain components of the vehicle, with or without using tools, and explain in general terms whether or not safety requirements are satisfied. (Objectives of this kind are included in the practical part of the driving test).

v.**State the content of or explain the meaning of;** meaning that he must be able to differentiate between correct and incorrect answers to questions on, risk factors and traffic rules ., or explain verbally the topic in question in general terms. (Objectives of this kind are included in the theoretical and practical part of the driving test).

vii.**Identify, recognize, assess or anticipate;** meaning that he must be able to observe certain points in real traffic situations (or in pictures), appreciate their importance for safety, and differentiate between correct and incorrect responses to questions on the points, or explain verbally their importance in general terms. (Objectives of this kind are included in both the theoretical and practical parts of the driving test).

viii.**Perform observations and maneuvers;** meaning that he must identify and assess objects or situations, control the vehicle and execute maneuvers or other tasks skillfully. (Objectives of this kind are included in the practical part of the driving test).

ix.**React appropriately;** meaning that he must be able to control the vehicle and adapt speed, position and driving direction in accordance with the traffic rules, safety considerations such as showing regard to other road users and seamlessly Maneuvering through traffic. (Objectives of this kind are included in the practical part of the driving test).

#### 1.12 Units Summary and Time Allocation

Code	Topic	Content	Time (Hours)		
			Theor y	Practic e	Total
1.12.1	Introduction to driving.	<ul style="list-style-type: none"> <li>• Traffic safety situation in Kenya and the common causes of vehicle related crashes.</li> <li>• Background of driver training- Key players in the Road Safety sector.</li> <li>• The importance of driver training.</li> <li>• The goals of driver training.</li> <li>• Driving License and driving test.</li> <li>• The driver's tasks.</li> <li>• The driver's responsibilities.</li> <li>• The principles of driver training</li> <li>• Legal requirements for driving in Kenya- NTSA Act, Traffic Act, County By-Laws.</li> <li>• Classes of vehicles</li> </ul>	5	0	5
1.12.2	Fundamental Driving Rules	<ul style="list-style-type: none"> <li>• Traffic rules, regulations and other Safety requirements</li> <li>• Highway Code</li> <li>• Rules of behavior in traffic</li> </ul>	4	0	4
1.12.3	Model Town	<ul style="list-style-type: none"> <li>• Name parts of the Model town.</li> <li>• Explain the directional arrows.</li> <li>• Road markings and Road Signs</li> <li>• State the importance of road markings.</li> </ul>	1	4	5

Code	Topic	Content	Time (Hours)		
			Theor y	Practic e	Total
		<ul style="list-style-type: none"> <li>Move model car from one point to another safely.</li> </ul>			
1.12.4	Human factors in Traffic	<ul style="list-style-type: none"> <li>Observation</li> <li>Driver perception and awareness</li> <li>Judgment of speed and distance</li> <li>Stopping distance</li> <li>Selection of proper speed</li> <li>Factors that influence the driving skills</li> <li>Special needs of vulnerable groups</li> <li>Limitations in number of passengers and quantity of goods</li> <li>Drugs and Alcohol.</li> <li>Customer care and public relations</li> <li>Hygiene, Health and Safety</li> <li>Crash handling procedures</li> <li>First Aid</li> </ul>	6	2	8
<b>Total</b>			<b>16</b>	<b>6</b>	<b>22</b>

### 1.12.1 INTRODUCTION TO DRIVING

#### 1.12.1C Expected Outcome

The trainee should familiarize with Basics of driving

#### Theory/Practice

#### 1.12.1T/P0 Objectives

By the end of this unit, the learner driver should be able to:

- discuss traffic safety situation in Kenya and the common causes of vehicle related crashes
- outline background of driver training- key players in the road safety sub-sector.
- explain the importance of driver training.
- discuss the goals of driver training.
- define driving Licenses and driving test.
- name driver's tasks.
- state driver's responsibilities.
- discuss principles of driver training.
- state legal requirements for driving in Kenya-NTSA Act, Traffic Act, County By-Laws.
- list classes of vehicles.

#### Content

1.12.1T/P1 Traffic safety situation in Kenya and the common causes of vehicle related crashes

1.12.1T/P2 Background of driver training- Key players in the Road Safety Sub-Sector

1.12.1T/P3 Importance of driver training

1.12.1T/P4 Goals of driver training

1.12.1T/P5 Driving License and driving test

1.12.1T/P6 Driver's tasks

1.12.1T/P7 Driver's responsibilities

1.12.1T/P8 Principles of driver training

1.12.1T/P9 Legal requirements for driving in Kenya-NTSA Act, Traffic Act, County By-Laws



1.12.1T/P10 Classes of vehicles.

### **1.12.2 FUNDAMENTAL DRIVING RULES**

#### **1.12.2C Expected Outcome**

The trainee should be able to explain fundamental driving rules

#### **Theory/Practice**

#### **1.12.2T/P0 Objective**

By the end of this unit the learner driver should be able to:

- a) apply the traffic rules and regulations
- b) discuss Highway Code
- c) discuss the general rules of behavior in traffic regarding safety, courtesy and responsibility
- d) state driver's responsibilities as owner and user of vehicles concerning vehicle registration, third party risk insurance, condition of the vehicle.

#### **Content**

1.12.2T/P1 Traffic rules and regulations

i. Traffic rules, regulations and other safety requirements on vehicles and drivers valid on all roads, streets, bridges and other places accessible to normal traffic, whether public or private.

ii. Obeying driving instructions given by road markings, traffic signs and directives by the police and knowing the priority of such directives when more than one kind is at hand.

1.12.2T/P2 Highway Code.

1.12.2T/P3 General rules of behavior in traffic regarding safety, courtesy and responsibility.

- I. Application of a defensive driving style in order to increase safety margins, avoid getting into risky or disastrous situations, improve driving economy and protect the environment.
- II. Special attention to vulnerable road users such as children, old people and persons with disabilities.
- III. Giving consideration to unprotected road users like pedestrians, cyclists and motorcyclists.
- IV. Use of the horn, when necessary, to warn other road-users.
- V. Giving Right-of-way for specific vehicles, road users or in specific situations.
- VI. Acting properly in case of a crash or when arriving at the scene of a crash.

1.12.2T/P4 Drivers responsibilities as owner and user of vehicles concerning vehicle registration, third party risk insurance, condition of the vehicle.

### **1.12.3 MODEL TOWN**

#### **1.12.3c Expected Outcome**

The trainee should be able demonstrate driving in a model town.

#### **Theory/Practice**

#### **1.12.3T/P0 Objectives**

By the end of this unit, the learner driver should be able to:

- a) name parts of the model town
- b) explain the directional arrows
- c) explain road signs and markings
- d) state the importance of road signs and road markings
- e) move model car from one point to another correctly

#### **Content**

1.12.3T/P1 Parts of the model town

1.12.3T/P2 Explain the directional arrows

1.12.4T/P3 Explain road signs and markings

1.12.5T/P4 State the importance of road signs and road markings

**Where** At the driving test centre

**Time Schedule** 2 Hours (T) 0.5 Hours (P)

**Demands** Score: Passed/not passed Overall pass mark > 70%

**Materials** Theory tests and driving tests sheets

#### **8.8.20 DRIVING PRACTICE**

##### **8.8.20C Expected Outcome**

The trainee shall be able to competently drive and offer professional driving services.

##### **Theory/Practice**

##### **8.8.20T/P0 Objective**

By the end of the unit the trainee will be able to competently drive and offer professional driving services.

##### **Content**

Practical driving under supervision of a driver mentor for a minimum of 3 months for PSVs and 5,000 km for HGVs within 3 months.

**Responsible** Driver mentor

##### **Conditions for Driver mentors and supervised professional driving practice:**

- (a) Must have 5 years professional experience.
- (b) Must have been approved by the professional body as professional drivers.
- (c) The trainee driver must obtain insurance cover for the period
- (d) The company must sign a training consent with the professional body
- (e) The trainee driver must possess a valid provisional Special Professional Driving License.

**Where** At the test centre

**Time Schedule** 480 Hours (3 Months)

##### **Demands**

- Score: Passed/not passed Overall pass mark > 70%
- Zero serious road crashes
- Zero convictions for traffic offences.
- Examination: The driver mentor shall complete assessment forms for each trip/day and file for review by an examiner.
- If the trainee fails he/she should have one more attempt not less than two months. In the event of subsequent failure the trainee shall be de-registered from the program.

**Training Method** The trainee shall conduct both theory and practical tests at the test centre.

**Materials** Driving test sheets

## **CHAPTER NINE**

### **9.0. TRAINING OF INDUSTRIAL, CONSTRUCTION AND AGRICULTURAL MACHINE OPERATORS (ICA)**

This course shall be offered by an accredited training institution using this curriculum or a bespoke curriculum approved by the authority.

#### **9.1 Responsibility**

- i) The Accreditation and Academic Committee of the authority is responsible for accrediting institutions and Instructors to offer this course.
- ii) The Director of Safety for the Authority shall be responsible for review of this curriculum and the approval of any bespoke curriculum intended to be used for ICA training.

## 9.2 Class Size

- i) Tutor to student ratio will be at most 1: 24.
- ii) The school is required to have the following minimum equipment;
  - a. Classroom for candidates 6m x 8m
  - b. Adequate ICT resources
  - c. At least 1 training Vehicle.
  - d. At least 1 accredited trainer

### 9.3(a) Minimum Requirements for enrolment to train as an industrial, construction and agricultural machine operator

- i) O-level education.
- ii) Must be able to read and write in the official languages.
- iii) Must be a holder of a valid driving License.
- iv) Minimum age of 20 years old.
- v) No previous dangerous driving offence – Gross disregard of Highway Code and causing death by dangerous driving over the last 24 months.
- vi) Police clearance certificate.
- vii) Medical test certification obtained within the last 6 months.

### 9.3(b) Requirement for issuance of an Industrial, Construction and Agricultural (ICA) vehicle License

ICA License is categorized as a Professional Drivers' License (PDL)

- i) Certificate of Competence (CoC) issued under this curriculum.
- ii) Certificate of membership of a professional operators' body approved by the Authority.

## 9.4 Units for Industrial, Construction and Agricultural (ICA) vehicle License Course

- a) Introduction to ICA
- b) Basic machine Control
- c) Legal aspects governing operation of ICA
- d) Practical Operation
- e) Examination for ICA operators

### Unit Summary and Time Allocation

Code	Topic	Content	Time (Hours)		
			Theory	Practice	Total
9.4.1	Introduction to a ICA	<ul style="list-style-type: none"><li>Regulations governing operation of ICA</li><li>Requirements to obtain the driver License</li><li>The importance / role of the vehicle as a part of the national transportation system.</li><li>The crash rate of the vehicle</li></ul>	24	0	24
9.4.2	Basic Machine Control	<ul style="list-style-type: none"><li>Regulations governing operation of ICA</li><li>Requirements to obtain the driver License</li><li>Importance/Role of the vehicle as part of the national transportation system</li><li>Crash rate of the vehicle</li></ul>	80	48	128
9.4.3	Legal aspects governing operation of ICA	<ul style="list-style-type: none"><li>Traffic Act, NTSA Act and other laws governing operation of ICA</li></ul>	8	0	8

Code	Topic	Content	Time (Hours)		
			Theory	Practice	Total
9/9/4	Practical Operation	<ul style="list-style-type: none"> <li>Practical operation of the machine</li> </ul>	0	160	160
9.4.5	Examination for ICA operators	<ul style="list-style-type: none"> <li>Theory and practical exam</li> </ul>	2	0.5	2.5
<b>Total</b>					<b>322.5</b>

### 9.9.1 INTRODUCTION TO ICA

#### 9.4.1c Outcome

The learner should become familiar with ICA

#### Theory/Practice

#### 9.4.1T0 Objective

By the end of these units, the learner operator shall be able to:

- explain regulations governing operation of ICA
- state requirements to obtain the driver license
- discuss the importance / role of the plants as a part of the national transportation system.
- discuss the crash rate of the plants.

#### Content

- 9.4.1T1 Regulations governing operation of ICA
- 9.4.1T2 Requirements to obtain the operator's license
- 9.4.1T3 The importance / role of the plant as a part of the national transportation system.
- 9.4.1T4 The crash rate of the vehicle

### 9.4.2 BASIC MACHINE CONTROL

#### 9.4.2c Excepted Outcome

The trainee shall be trained in basic machine control

#### Theory/Practice

#### 9.4.2T/P0 Objective

By the end of this unit, the learner operator shall be able to:

- Prepare for an operation
  - carry out a daily or pre-shift inspection in accordance with the instruction given in the Manufacturers' Handbook
  - complete any necessary adjustments to the machines systems or constituent parts in accordance with the advice given in the Manufacturers' Handbook
- Drive/Operate Plant on site
  - Operate plant over varying terrain with due regard to correct gear selection, proper use of controls, correct positioning for approach, travel through, over or around obstacles.
  - Observe and adhere to all site driving circuits.
- Operate the equipment using all controls and safely for a range of tasks
- Operate ancillary equipment

- i) Attach/detach any Ancillary Equipment safely in accordance with the Manufacturers' Handbook.
- ii) use any auxiliary equipment safely for a range of tasks
- e) Perform Lifting operations.
  - i) Demonstrates an ability to carry out lifting operations with regard to accepted safe operating procedures, the Lifting Operations and Lifting Equipment Regulations and Lifting Signals
- f) Maintain and shut down equipment safely and carry out the operator's daily service recommended in the Manufacturers' Handbook.

### **9.4.3 LEGAL ASPECTS GOVERNING OPERATION OF ICA**

#### **9.4.3T/P0 Objective**

By the end of this unit, the learner operator should have knowledge on the Traffic Act, NTSA Act and laws governing operation of ICA within various settings.

#### **Content**

Traffic Act, NTSA Act and other laws governing operation of ICA.

### **9.4.4 PRACTICAL OPERATION**

#### **9.4.4C Expected Outcome**

The trainee shall be able to competently operate the plant

#### **Practice**

#### **9.4.4T/P0 Objective**

By the end of the unit the trainee will be able to competently operate and offer professional plant operator services.

#### **Content**

Practical plant operation under supervision for a minimum of 160 hours.

**Responsible Supervisor.**

**Where** Actual work setting (Factory, Construction site or farm)

**Time Schedule** 160 Hours (1 Month)

#### **Demands**

- Score: Passed/not passed Overall pass mark > 70%
- Zero serious road crashes
- Zero convictions for traffic offences
- Examination: The supervisor shall complete assessment forms for each day and file for review by an examiner.
- If the trainee fails he/she should have one more attempt not less than two months. In the event of subsequent failure the trainee shall be de-registered from the program.

**Training Method** The trainee shall conduct both theory and practical tests at the test centre.

**Materials** Driving test sheets

### **9.4.5 EXAMINATION FOR ICA OPERATORS**

#### **9.4.4C Expected Outcome**

The trainee shall be able to undertake examination in ICA Plant operation and obtain certificate of competence that will see his/her license endorsed with this class.

#### **Theory/Practice**

#### **9.4.4T/P0 Objective**

By the end of the unit the trainee will be able to pass the theory and practical driving examination for the professional class category applied.

**Content**

**9.4.4T/P1** Theory and practical exam.

**Responsible** Driving test examiner

**Where** At the driving test centre

**Time Schedule** 2 Hours (T) 0.5 Hours (P)

**Demands** Score: Passed/not passed Overall pass mark > 70%

**Materials** Theory tests and driving tests sheets