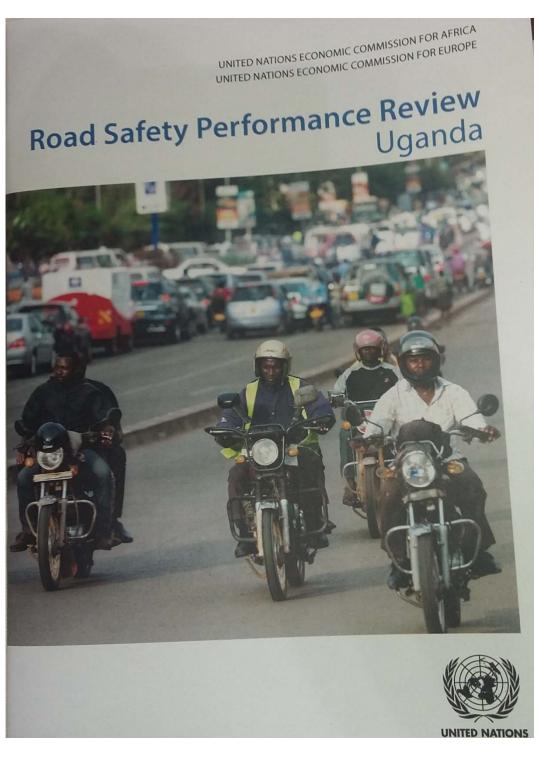


Uganda Road Safety Capacity Building Workshop

Motorcycle Training Curriculum & Manual Overview Mr. Paul Kwamusi, Consultant



Driver Training is Poor Leading to High levels of crashes (Accidents)



Who is to blame?

- A. Driver Instructors
- **B.** Learners
- C. Enforcers
- **D.** Regulators
- E. Private sector
- F. Civil Society
- **G.** Politicians
- H. Road users

What is correct answer

- A. Driver Training is letting down Road safety
- B. Road safety is letting down Driver Training

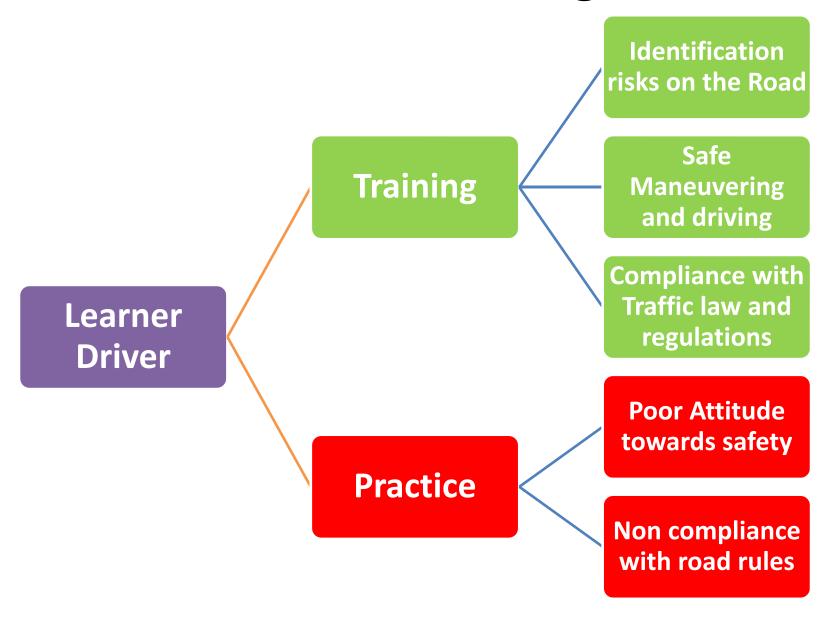
Conditions that enable effective driver training

Issue	Review findings				
1.Instructor training	X				
2. Driver Instructor certification	X				
3. Motorcycle training	X				
4. Learner driver (Group B) training					
5. PSV driver training	X				
6. HGV training	X				
7. Driver testing (All)					
8. Use of Curriculum	X				
9. Use of Manuals	X				
10. Enforcement of Driving standards	X				

Further findings

- 1. Learners in many driving schools arrive in driving schools in no condition to learn
- 2. Many come to driving schools deprived and want to learn driving for a job to escape poverty.
- There were also concerns about the quality of teaching, with too many instructors not being particularly well trained themselves
- 4. There was also a problem of instructor absenteeism which has been linked to instructors reducing costs of instruction or not being regularly paid

Role of Training



In Uganda, there is no formalized Motorcycle training system

- Driving schools register low demand for motorcycle training services
- Most riders are self or peer trained
- Many are injured or die in the process of learning
- Many others die or are injured in trying to overestimate their performance
- Self trained riders usually do not appreciate the learning process

Training focuses a learner on driver deficiencies that is likely to lead to severe and fatal injuries

A well trained learner

- Knowledge
- Driving skills
- Appliance of rules
- Perception and awareness
- Communication with other road users in traffic
- Adaptation to current situations
- Realistic view of own capacity and others'

A poorly trained learner

- Limited Knowledge
- Poor Driving skills
- Non compliant to rules
- Poor perception and awareness
- Poor Communication with other road users in traffic
- Poor adaptation to current situations
- Poor view of own capacity and others'

Our riders are skip safety training except for practical handling of the motorcycle

The results have been devastating for the riders, passengers and other road users



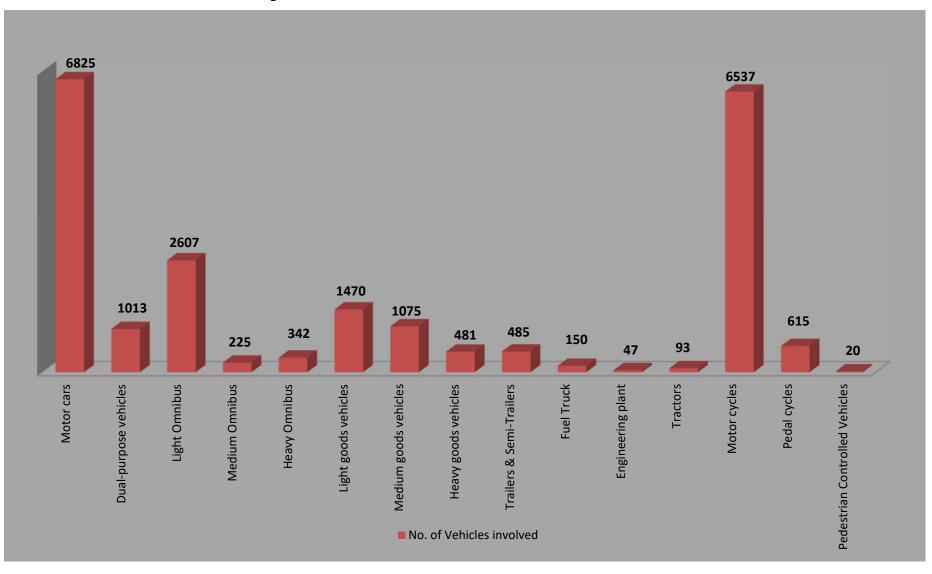
Bodas kill 7,000 people in 3 years

Causes. Police attribute accidents to untrained riders. impatience of the motorcyclists, reckless riding and shortage of traffic police officers in some parts of the country to enforce traffic regulations. >> P.5



The results are devastating

Motorcycle risk to crashes (2016)







Testing the resilience of motorcycle use



Testing the resilience of motorcycle use

Child safety is compromised



Testing the resilience of motorcycle use



Testing the resilience of motorcycle use



r M/Cycles

Killer M/Cycles

Curriculum/Manual Development

Curriculum Development 2004

- Learner Driver Curriculum
- Driving Instructors
 Curriculum

Curriculum Development 2014

- Motorcycle Curriculum
- PSV Curriculum
- M/HGV Curriculum

Curriculum Development 2016

EAC HGV Curriculum

Manual Development 2008

- Learner Driver Manual
- Driver Test Manual
- Driver Test Question Bank

Manual Development 2014

- Motorcycle Manual
- PSV Manual
- M/HGV Manual

Manual Development 2016

EAC HGV Manual

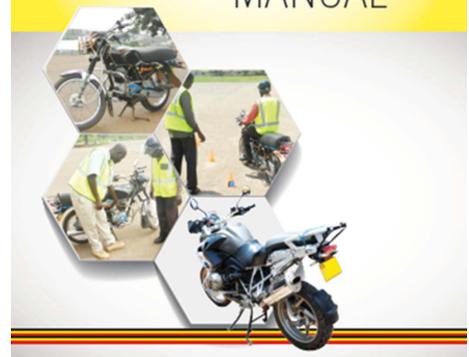


Curriculum for Training Motorcyclists





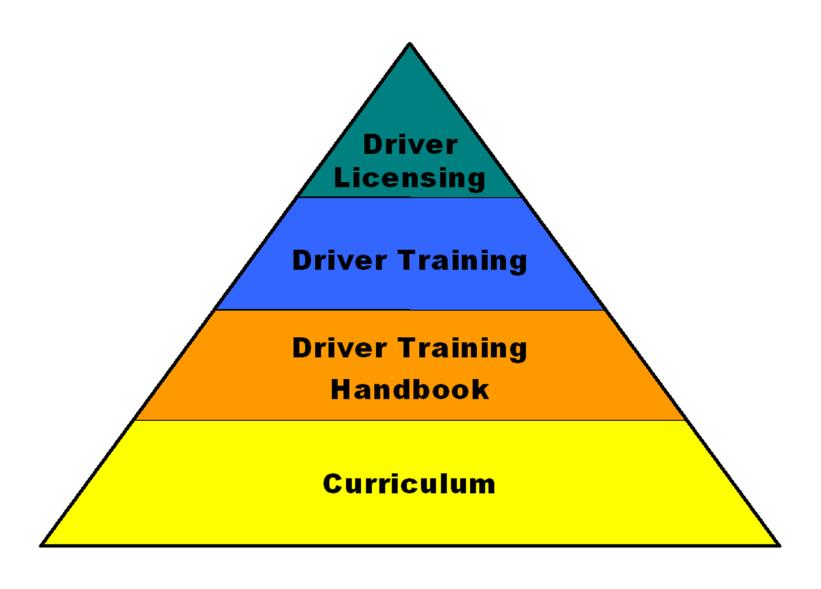
MOTORCYCLE RIDERS' MANUAL





Motorcycle curriculum does not cater for Tricycles as they have recently been introduced

Driver Learning Triangle.



Driver training involves 3 elements:

Curriculum Learning Testing

Three major Aspects of any Driver Training System

Curriculum

Learning

Testing



Curriculum (general description of aims, learning objectives, demands and educational principles)

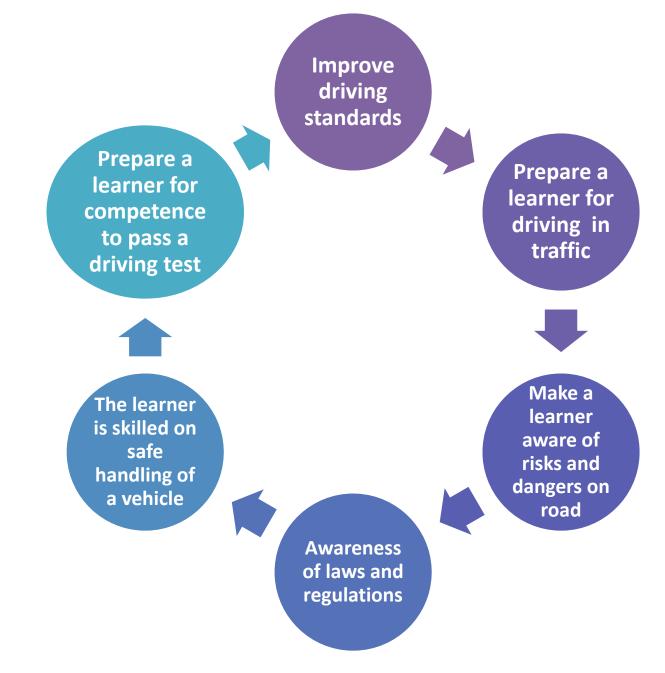
Learning process (Tools for and results of learning. Tools like Manuals, Highway Code, instruction, training, self-studies, understanding, skills, attitudes, driving style etc.)

Examination (Assessment of educational outcome and evaluation of the learning process in relation to demands stated in curriculum).

The objectives for motorcycle curriculum

- To improve motorcycle riding standards in Uganda
- To adequately prepare the Motorcyclists to be able to ride safely
- To teach how to practically operate a motorcycle
- To provide Motorcyclists with riding knowledge
- To improve competence to Motorcyclists
- To contribute to sustainable training for Motorcyclists in the country
- To provide training methods and framework for Motorcycle manual development

Role of a driving curriculum



Theory

 Understand why to do the exercise

Demonstration

• Instructor demostrate

Instructural training

• learner do the task under instruction

Independent Training

• learner train independently

The motorcycle curriculum

- Module 1 Introduction
- Module 2 Introduction to the Motorcycle
- Module 3 Traffic requirements for a motorcyclist
- Module 4 Traffic signs and signal regulations
- Module 5 Learning to ride
- Module 6 On Road Riding Skills
- Module 7 Hazard Perception and awareness
- Module 8 Defensive driving
- Module 9 Customer care
- Module 10 Accidents and Emergencies
- Module 11 HIV/AIDS Prevention and care

The Motorcycle Training methods

Training Module	Training method
1 Introduction	Theory
2 Introduction to the Motorcycle	Theory/ Practical
3 Traffic requirements for a motorcyclist	Theory
4 Traffic signs and signal regulations	Theory
5 Learning to ride	Practical
6 On Road Riding Skills	Theory/Practical
7 Hazard Perception and awareness	Theory
8 Defensive driving	Theory/Practical
9 Customer care	Theory
10 Accidents and Emergencies	Theory/Practical
11 HIV/AIDS Prevention and care	Theory

J	Module 2 Introduction to Motorcycle						
	Learning Outcomes		Competencies		Related Tasks		
1.1	1.1 Ability to understand the use of motorcycle	1	Introduce the reader to motorcycles	1.1 1.2	Introduction Explain the different types of Motorcycles		
		2	Identify the risks and dangers of motorcycles and how to maintain it.	2.1	Explain the different kinds of risks and dangers of Motorcycles		
				2.2	Demonstrate the Motorcycle safety checks and maintenance		
1.2	1.2 Understanding the components of a motorcycle	ts of a use of components of a		onents of a use of components of a	components of a use of components of a	3.1	Explain the different common parts of a motorcycle
				3.2	Explain the different types of motorcycle controls		
1.3	Understand the speed regulation rules	4	Identify the risks involved for not complying the speeding rules	4.1	Explain the benefits of speed regulations		
1.4	Understand the working operations of a motorcycle	5	Identify the safe operation of the motorcycle	5.1	Demonstrate the meaning of different motorcycle dashboard lights		

Module 3 Traffic regulations for motorcyclists

	Learning Outcomes		Competencies		Related Tasks		
	To understand and comply with the traffic regulations for motorcyclists	1	Introduce the role of traffic regulations to the learner	1.1	Introduce the benefit of traffic rules to the learner and the other road users		
		2	Explain the purpose of the Traffic and Road Safety Act	1.2	Explain the role The Traffic and Road Safety Act, 1998 and the need to comply with the law		
		3	Identify the specific laws and rules related to motorcycle use	1.3	Explain the Specific regulatory requirements for motorcyclists including the motorcycle regulations of 2004		
		4	Identify the risks related to non-compliance of the Traffic regulations		Explain the risks of road crashes and injuries that can arise due to non-compliance of the law		

	Module 4 Traffic signs and signal regulations					
	Learning Outcomes		Competencies		Related Tasks	
	To understand and comply with the traffic signs and signals	1	Understand the role of traffic signs and their meanings	1.1	Introduce road signs and signals to the learner outlining the benefits of complying	
		2	Identify the risk of not complying with road signs and markings to the reader	1.2	Explain the purpose of traffic signs and road markings	
				1.3	Traffic signs and road markings	
		3	Identify the risk of not complying with the traffic lights signal	1.4	Explain the Traffic lights meanings	
		4	Identify the purpose of road markings and the need to comply	1.5	Explain the meanings of different Road marking	

Module 5 Learning to Ride

Learning Outcomes		Competencies		Related Tasks	
Learn how to ride safely a motorcycle	Be familiar with the motorcycle	1	Introduce the reader on how to ride safely	1.1	Introduce the concept of riding Explain the Basic Principle of Riding
	motorcycle safely	Use a safe, systematic routine to support moving off safely and	2.1	Demonstrate how to Start and stop the motorcycle safely	
			smoothly	2.2	Demonstrate riding the motorcycle and braking to stop
			2.3	Demonstrate how to undertake an Emergency stop	
				2.4	Demonstrate safe Brake Use
	Moving off safely 3	Maneuvering under various circumstances safely	3.1	Demonstrate riding in a straight line and stopping	
			3.2	Demonstrate Riding slowly Riding slowly	
				Demonstrate riding a figure of Eight	
				3.3	Demonstrate Rear

Learning Outcomes		Competencies		Related Tasks
Turning left and Right	4	Identify the risks involved in turning	4.1	Demonstrate turning left and right safely
Gear change safely	5	Identify different types of gears	5.1	Demonstrate the gear changing methods
Making a U turn	6	Identify the risks involved U turning	6.1	Demonstrate the U-turn
Use of hand signals	7	Identify the use and risks in use of hand signals	7.1	Demonstrate the use of hand signals
Moving off safely at an	8	Identify the risks of moving off at	8.1	Moving off at an angle
angle		an angle, uphill an down hill	8.2	Demonstrate how to avoid Wobbling
			8.3	Riding uphill and down hill

Module 6 On Road Riding Skills

	Learning Outcomes		Competencies		Related Tasks
1.1	Being familiar with on road siding skills	1	Explain the risks and dangers of	1.1	Introduce the risks involved riding in traffic
			riding in traffic	1.2	Explain the characteristics of Motorcycle riding in Traffic
				1.3	Demonstrate the use of Mirrors
				1.4	Demonstrate the riding skills
1.2	Use of appropriate speeds	2	Explain the risks of over speeding	2.1	Explain the need of use of appropriate Speed to avoid
			and use of		crashes and other risks.
			appropriate speeds		
1.3	Anticipation of hazards	3	Explain the	3.1	Explain what the
			anticipation of hazards		Anticipation means and the risks of poor anticipation

Module 6 On Road Riding Skills

	Learning Outcomes		Competencies		Related Tasks
1.4	Apply the road Positioning technique	4	Explain the role of appropriate following positioning	4.1	Identify the risks of poor road positioning
1.5	Safe following conditions	5	Identify the need for a safe following distance	5.1	Demonstrate a safe following distance
1.6	Weather and riding conditions	6	Identify the effect and risks of adverse weather towards riding	6.1	Demonstrate different weather conditions and their effect and risks on riding.
1.7	Parking the motorcycle safely	7	Identify the risks and dangers of poor parking	7.1	Demonstrate the safe Parking areas

Module 7 Hazard perception and Awareness

	Learning Outcomes		Competencies		Related Tasks
1.1	Meaning of Hazard perception and awareness	1	Explain the ability to ensure that hazards are well understood before they create incidents	1.1	Introduction Demonstrate the Awareness and anticipation of risks on the road
1.2	The effect of different road surface conditions	2	Explain how different road conditions lead to different riding experiences	1.3	Demonstrate the different road surface conditions and the risks related to them
1.3	Riding in busy areas	3	Identify the different risks involved in riding in a busy area	1.4	Explain the different risks related to riding in a busy area like poor visibility and observation

Module 7 Hazard perception and Awareness

	Learning Outcomes		Competencies		Related Tasks
1.4	Hazard awareness at different situations on the road	4	Identify the different risks particularly at junctions, intersections, curves and traffic lights areas	4.1	Explain the Hazard at different situation on the road
1.5	Hazards along rural roads	5	Identify the different risks particularly related to rural roads like loose animals and loose surface	5. 1	Explain the hazards along rural roads to avoid the risks of road crashes
1.6	Application of Prevention Maintenance	6	Identify the risks of poor maintenance and need to ensure that the rider sticks to proper preventive maintenance culture	6. 1	Demonstrate the need for Prevention Maintenance
1.7	Application of Basic safety	7	Promote the need for	7.	Explain the meaning

Module 8 Defensive Riding

	Learning Outcomes		Competencies		Related Tasks
1.1	Introduction	1	Understand the role of the poor attitude and crash causation	1.1	Introduce Defensive driving as a concept that would led to safer road user behaviour
1.2	Meaning of defensive riding	2	Definition and meaning of driving defensively	1.2	Meaning of defensive riding
1.3	Elements of defensive riding	3	The learner to be able to understand the elements of defensive riding	1.3	Explain the Elements of defensive riding: Knowledge, Alertness, Judgment, Foresight, Skill

Module 8 Defensive Riding

	Learning outcomes		Competences		Related Tasks
1.4	Observation	4	Explain the risks of poor observation and involvement in crashes	1.4	Demonstrate the observation skills
1.5	Keys to safe riding	5	Understand the keys to safe riding	1.5	Explain and demonstrate Observation Identification, Decision Making and Action

Module 9 Accidents and Emergencies

	Learning Outcomes		Competencies		Related tasks
1.1	Introduction	1	To understand what to do when a crash happens	1.1	Introduce and identify the rider to many types of emergencies that can occur on the road
1.2	At the road traffic accident Scene	2	To identify the need to be a first respondent in case of the crash	1.2	Explain what a rider needs to do or assist in case of a crash Scene
1.3	First Aid on the Road	3	To understand the need to have First Aid	1.3	Explain the need for First Aid First Aid on the Road
1.4	Other Unsafe Situations	4	To discourage the unsafe actions on the road like stealing from crash victims	1.4	Explain the unsafe actions and situations

Module 10 Customer Care

			duile 10 Custon		Care
	Learning Outcomes		Competencies		Learning Outcomes
1.1	Introduce the concept of customer care	1	The learner understands what customer care means	1.1	Introduce the word customer care
1.2	Meaning of Customer Care	2	The learner understands why a passenger should be treated with care	2.1	Explain what entails of Customer Care
		3	The learner understands the aim and objectives customer care Objective	3.1	Explain the meaning of Customer care
		4	The operator understands why Passengers need to be treated with care	4.1	Explain why Passengers need to be treated with care

Module 10 Customer Care

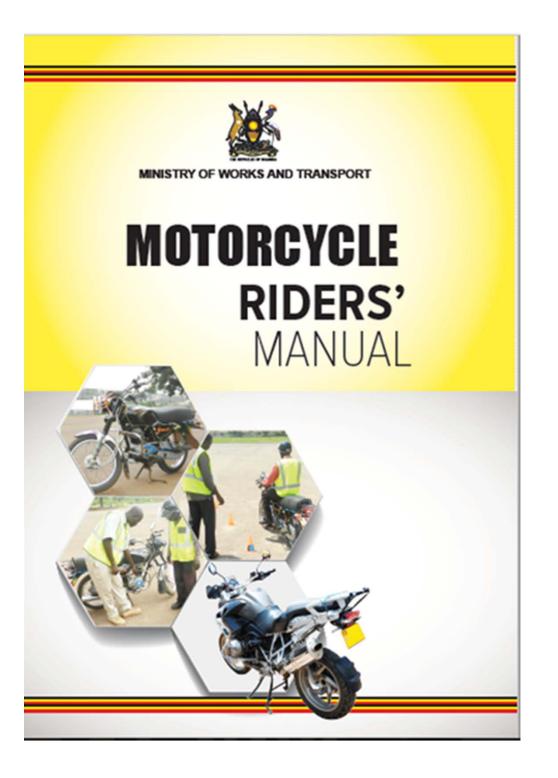
	Learning outcomes		Competences		Related Tasks
1.3	Promote the professional Services	5	The learner understands why Professional services are required by the leaner Identify the Commercial	5.1 6.1	Identify the behaviours that compromise the Professional Services Explain the issue of
			Pressure and the risk of crashes		commercial pressure
1.4	Transportation of the Elderly and those with Disabilities	7	The learner understands why transportation of the Elderly and those with Disabilities need to be handled with care	7.1	Explain why the need to transportation of the Elderly and those with Disabilities
1.5	Poor Public Behavior to avoid	8	The learner understands and identifies the behaviours that compromise the effective	8.1	Explain the poor public Behavior to avoid particularly sexual harassment

Module 11 HIV/AIDS prevention and care

	initiation and the state of the									
	Learning Outcomes		Competencies		Related Tasks					
1.1	HIV/AIDS	1	Identify the challenge of	1.1	Introduce the concept of safe					
	challenge and mobile people		the scourge amongst mobile people		Explain the dangers of the HIV/AIDS challenge and mobile people					
				1.3	Explain the meaning of HIV antibody positive					
1.2	HIV/AIDS prevention methods	2	The learner understands the preventive methods available	2.1	Explain the HIV/AIDS prevention methods					
		3	The learner understands why the VCT is important	3.1	Explain what Voluntary Testing and Counseling (VCT) means					

Module 11 HIV/AIDS prevention and care

	Learning Outcomes		Competencies		Related Trasks
1.3	Care for people living with HIV and AIDS Strategies for fighting Stigma and	4	The learner understands how to care for people living with HIV/AIDS	4.1	Care for people living with HIV and AIDS
	Discrimination	5	The learner avoids Stigma and Discrimination	5.15.2	Stigma and Discrimination Strategies for fighting Stigma and Discrimination



Objectives of the Manual

- To impart basic knowledge and skills to persons who wish to ride motorcycles
- To introduce to motorcyclists basic the technical knowledge of how a motorcycle operates
- To train motorcyclists on the legal requirements of using the road
- To improve the attitude of motorcyclists
- To safeguard the lives of passengers on motorcycles

Training methods of the Manual

- First, the theory of driving; this includes the concepts of basic handling of the a motorcycle
- Secondly, driving in a training area usually off road
- Thirdly, practical riding exercises in traffic
- Fourthly, training through end of chapter exercises

Chapter 2 Introduction to a Motorcycle

- Types of Motorcycles
- Risks and dangers of Motorcycles
- Motorcycle safety checks and maintenance
- Fitness to ride

Chapter 3 Understanding the Motorcycle

- Common parts (components) of a motorcycle
- Motorcycle Controls
- The Motorcycle Dashboard (Instrument Panel)
- The Motorcycle Engine
- The motorcycle systems

Chapter 4 Legal requirement for riding a motorcycle

- The Traffic and Road Safety Act, 1998
- The Highway Code
- Traffic rules
- Traffic regulations
- Specific regulatory requirements for motorcyclists

Chapter 5 Traffic signs and Signal

- The purpose of traffic signs and road markings
- Traffic signs
- Road markings

Chapter 6 Learning to ride

Basic Principle of Riding

- How to hold and push the motorcycle
- How to sit on a motorcycle
- Adjusting the Controls
- Electric starter
- Kick starter
- Stopping the engine

Basic riding skills

Riding the motorcycle and braking to stop

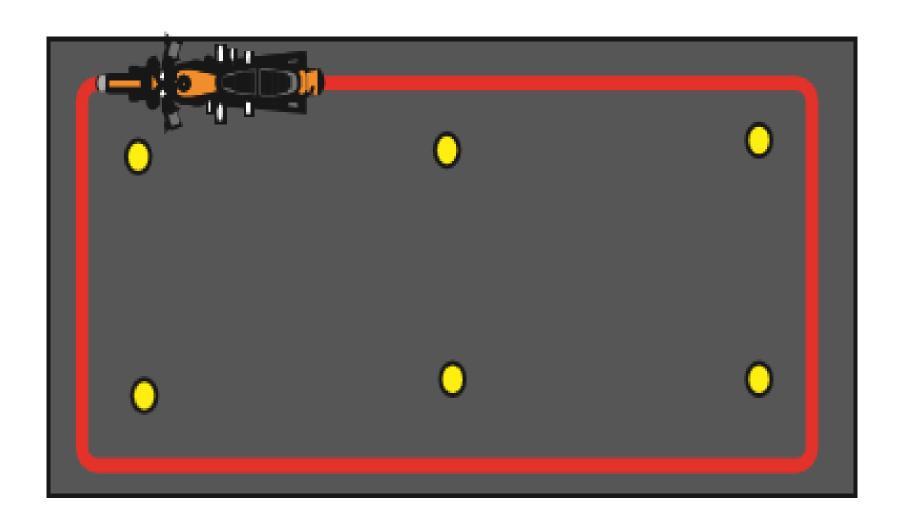
- Clutch control
- Fully automatic motorcycles
- Semi-automatic motorcycles
- Stopping safely
- Disengaging the clutch
- Riding at low speed and steering

Basic riding skills

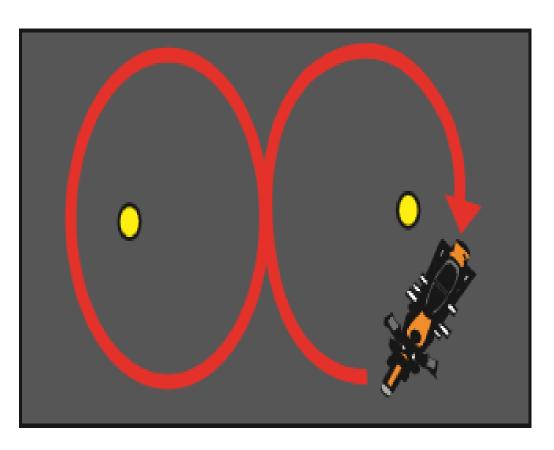
Brake Use

- How to stop most effectively
- Using one brake only
- When to brake
- Where to brake

Starting and Stopping

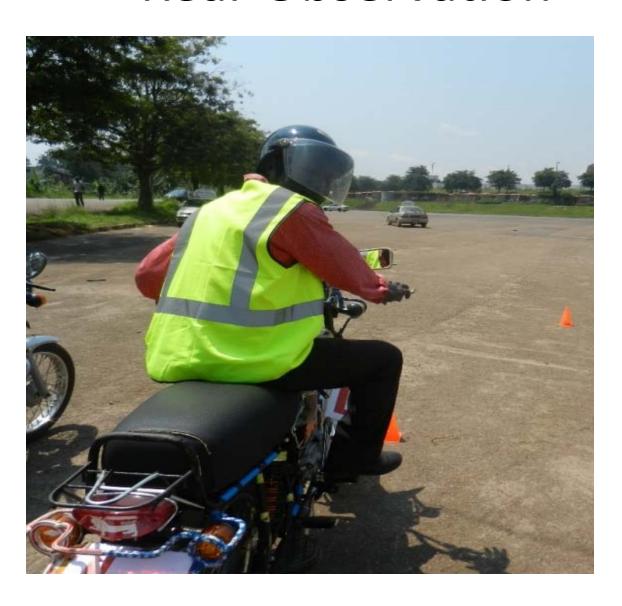


Riding in figure 8

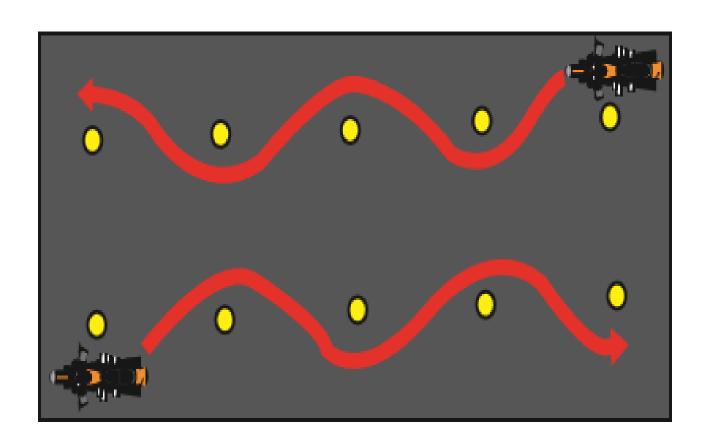




Rear Observation



Turning left and right



Gear Changing

Changing gear

- Changing up
- Changing down
- Finding the right gear

Making a U Turn



Use of Hand signals



Other training area Maneuvers

- Moving off at an angle
- Riding uphill and down hill

Basic Riding Elements

- Observe
- Signal
- Mirror

and

- Position
- Speed
- Look
 OSM-PSL

Chapter 7 Riding in Traffic

Characteristics of Motorcycle riding in Traffic

Two wheeler Vulnerability

- Overloading
- Dangerous loading
- Passenger action
- Speeding

Vulnerability



Vulnerable motorcyclists



Poor weather affects riding







Need for Helmet

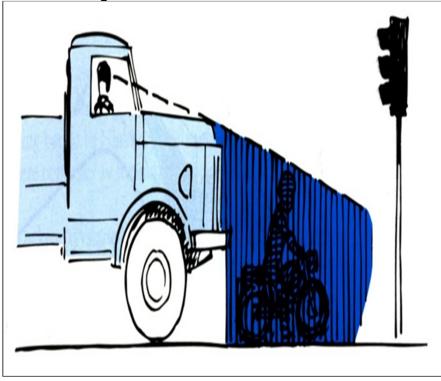
A helmet is useful in the following ways:

- Spreads the forces of impact over a greater surface
- Prevents direct contact between the skull and impacting object acting as a barrier between the head.
- Helps in reducing severity from criminals
 Dangers of non-use of helmet by riders
- Severity of crashes
- Brain damage in case of crashes
- Dust enters your body
- Risk of eye diseases
- Poor visibility in adverse weather



Visibility





Need for visibility aids

- Vulnerability of new and young riders
- Visibility Aids





Need to increase visibility



Use of Mirrors



Riding skills in traffic left and right bends



Lean with





Lean out





Rider leaning out, but with the head straight a

Other riding skills in traffic

- Appropriate Speed
- Anticipation
- Road positioning
- Following distance
- Weather conditions
- Parking

Chapter 8 Hazard Perception and Awareness

- The need for hazard perception and awareness
- Different hazards on the road
- Riding in busy areas
- Hazard awareness at junctions
- Hazard awareness at pedestrian crossings
- Hazard awareness at traffic lights
- Hazard awareness at roundabouts

Hazard Perception and Awareness..2

- Hazard awareness at slopes or gradients
- Hazard awareness at corners and bends
- Hazard awareness at road obstructions
- Hazard awareness during overtaking
- Hazard awareness at Railway (level) crossings
- Hazard awareness during the night conditions
- Hazard awareness of Cyclists
- Hazards along rural roads

Chapter 9 Defensive Riding

Meaning of defensive riding
Elements of defensive riding
Observation
Safe Following distance
Keys to safe riding



Chapter 10 Customer Care

- Meaning of Customer Care
- Customer care objectives
- Passengers
- Commercial pressure
- Transportation of the elderly and those with disabilities
- Poor public behaviours to avoid



Chapter 11 Accidents and unsafe situations

- At the road traffic accident scene
- First aid on the road
- Other unsafe situations

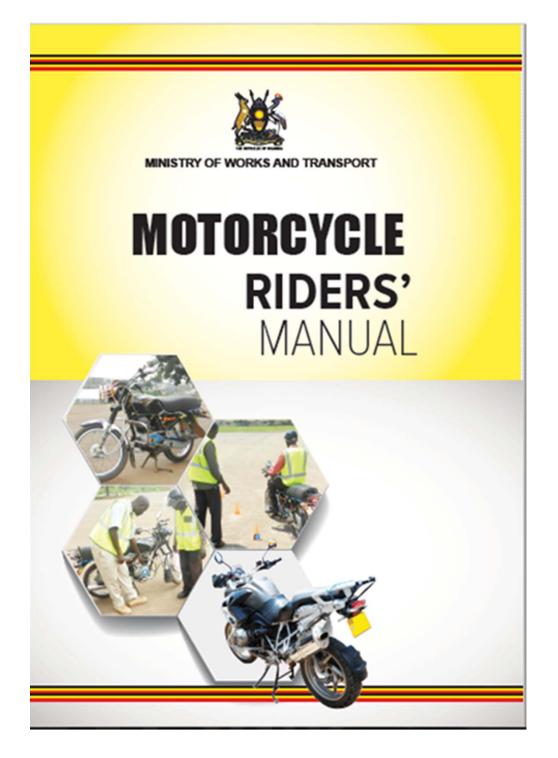




HIV/AIDS Prevention and Care

- HIV/AIDS Challenge and Mobile People
- Meaning of HIV antibody positive
- HIV/AIDS prevention methods
- Voluntary Testing and Counseling (VCT)
- Care for people living with HIV and AIDS





Thank You