

# ASEAN Road Safety Engineering Guidelines



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# **1 ASEAN ROAD SAFETY PERSPECTIVE**

- 1.1 INTRODUCTION – IMPACT OF ROAD CRASHES
- 1.2 ROAD SAFETY UPDATES IN ASEAN COUNTRIES
- 1.3 ROAD SAFETY LAWS
- 1.4 ASEAN ROAD SAFETY TARGET
- 1.5 FIVE PILLARS

## **2 ROAD SAFETY MANAGEMENT SYSTEM**

- 2.1 INTRODUCTION – IMPORTANCE OF LEAD AGENCIES
- 2.2 PREDICTABLE AND EFFECTIVE RESPOND TO ROAD SAFETY
- 2.3 REGULATORY COMPLIANCE
- 2.4 SAFE SYSTEM APPROACH
- 2.5 ISO TRAFFIC SAFETY MANAGEMENT STANDARD

## **3 NATIONAL ROAD SAFETY STRATEGY EVALUATION**

- 3.1 INTRODUCTION - KEY DEVELOPMENT IN ROAD SAFETY
- 3.2 ROAD SAFETY TARGET, POLICY AND STRATEGIC PLAN
- 3.3 CRITICAL SUCCESS FACTORS
- 3.4 EVALUATION AND MONITORING

## **4 ACCIDENT DATA COLLECTION AND MANAGEMENT**

4.1 INTRODUCTION - NEED OF DATA

4.2 DATA PARAMETERS

4.3 MINIMUM DATA REQUIRED

4.4 ROAD SAFETY DATABASE

4.5 DATA ANALYSIS & RISK IDENTIFICATION

## **5 IN-DEPTH CRASH ANALYSIS AND DATA COMPILATION**

5.1 INTRODUCTION – DEFINITION AND NEED OF IN-DEPTH CRASH DATA

5.2 MANAGING AND COMPILATION OF IN-DEPTH CRASH DATA

5.3 CRASH INVESTIGATION AND RECONSTRUCTION

5.4 RESULT GENERATION

## **6 ROAD SAFETY INSPECTION**

6.1 INTRODUCTION – QUALITY OF ROAD NETWORKS

6.2 ROAD ALIGNMENT

6.3 CROSS SECTION

6.4 UNSIGNALIZED INTERSECTION

6.5 SIGNALIZED INTERSECTION

6.6 INTERCHANGE

6.7 BRIDGE & TUNNEL

6.8 MOTORCYCLE INFRASTRUCTURE

6.9 PEDESTRIAN & CYCLIST INFRASTRUCTURE

6.10 VISUAL AID

6.11 ROAD SIDE SAFETY

6.12 ROAD SURFACE



## **7 INTERNATIONAL ROAD ASSESSMENT PROGRAM (IRAP)**

7.1 INTRODUCTION - IRAP PROTOCOL

7.2 RISK MAPPING

7.3 ROAD INSPECTION

7.4 STAR RATING

7.5 SAFER ROAD INVESTMENT

## **8 VEHICLE SAFETY ENGINEERING**

- 8.1 INTRODUCTION – VEHICLE SAFETY ROAD WORTHINESS**
- 8.2 MINIMUM VEHICLE SAFETY FEATURES**
- 8.3 HARMONIZATION OF VEHICLE SAFETY REGULATIONS**
- 8.4 PERIODIC TECHNICAL INSPECTION FOR VEHICLE**
- 8.5 NEW CAR ASSESSMENT PROGRAMME**
- 8.6 CRASH AVOIDANCE TECHNOLOGY**
  - 8.6.1 ACTIVE SAFETY – ABS , ESC
  - 8.6.2 PASSIVE SAFETY – AIRBAG, SEATBELT

## **9 ROAD SAFETY PROGRAMME FOR ROAD USERS**

- 9.1 INTRODUCTION - RISK FACTORS
- 9.2 ENFORCEMENT LAWS & STANDARDS
- 9.3 ROAD SAFETY EDUCATION & AWARENESS
- 9.4 COMMUNITY BASED PROGRAMME
- 9.5 SEAT-BELT AND HELMET WEARING
- 9.6 SPEED LIMIT COMPLIANCE
- 9.7 SAFETY OF MOTORCYCLISTS
- 9.8 DRIVER LICENCING SYSTEM

## **10 POST CRASH MANAGEMENT**

10.1 INTRODUCTION

10.2 RESPONSIVENESS OF POST CRASH EMERGENCIES

10.3 TRAUMA CARE SYSTEMS

10.4 ROAD USER INSURANCE

10.5 LEGAL RESPONCE