Syllabus

1. Understanding of Basic Electronics

Page 7

Unit 1.1 -

Introduction

Unit 1.2

Electrical Circuits

Unit 1.3

Magnetism and Electromagnetism

Unit 1.4

Definitions and Laws Related to Electricity

Unit 1.5

Electrical and Electronic Components

Unit 1.6

Electrical and Electronic Signals

2. Work with High Voltage Technology Page 33Unit 2.1 Introduction to Electric Vehicles Unit 2.2 Safety Regulations Unit 2.3 Tools and Equipment (ST) Unit 2.4 Handling of HV Components in EV (ST) Unit 2.5 Basics of EV maintenance (SA)

Unit 2.6

Customer Service (SA)

3. Computer Diagnostics

Page 123

Unit 3.1

Introduction to Automotive Computer Diagnostics

Unit 3.2

OBD (On-Board Diagnostics) System

Unit 3.3

Scan Tools and Software

Unit 3.4

Electronic Control Modules (ECMs) (ST)

Unit 3.5

Diagnostic Reports and Documentation (SA)

Unit 3.6

Handling Diagnostic Results and Recommendations

Unit 3.7

Legal and Ethical Considerations (SA)

Unit 3.8

Emerging Technologies and Trends

4. Error Code Reading and Troubleshooting Skills Page 187 **Unit 4.1** Diagnostic Tools and Equipment **Unit 4.2** Error Code Reading and Interpretation **Unit 4.3** Engine Diagnostics (ST) Unit 4.4 Transmission and Drivetrain Diagnostics (ST) **Unit 4.5** Electrical System Diagnostics (ST) Unit 4.6 Suspension and Brake Diagnostics (ST) Unit 4.7 Airbag and SRS (Supplemental Restraint System) Diagnostics (ST) Unit 4.8 Advanced Diagnostics and Troubleshooting Techniques (ST) **Unit 4.9** Troubleshooting Methodologies (SA)

Effective Communication and Customer Service (SA)

Quality Assurance in Diagnostics (SA)

Unit 4.10

Unit 4.11

5. Ability to Read and Comprehend Operating Manual

Page -235

Unit 5.1

Introduction to Service Manuals

Unit 5.2

Navigating Service Manuals

Unit 5.3

Interpreting Technical Data

Unit 5.4

Referring Manual for DTC

Unit 5.5

Understanding Manual for Repair Procedures (ST)

Unit 5.6

Interpreting Technical Information in Owner's Manual to Customers (SA)