



Central International University-CIU

Diversity Learning Institute-DLI

Twikatane e.V Germany

Skills Curriculum/Syllabus

Course Duration: 6 months

Course: General Light Vehicle Mechanics & Entrepreneurship

Syllabus Highlights

Expanded breakdown of the Topics

Practicals/Hands-On to be done in each Module

Equipment needed in each Module

Main Goals and Aims of this course

The Objectives of the Course

The points how this course will benefit the communities and the Zambian economy

Recommended books for each module

Free Online Libraries to access the books

Names of organizations that finance and sponsor the projects under this course.

(A) Syllabus Outline:

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|---|------------|
| Module 1: Introduction to Light Vehicle Mechanics | (60 hours) |
| Module 2: Engine Systems and Maintenance | (80 hours) |
| Module 3: Electrical Systems and Diagnostics | (60 hours) |
| Module 4: Fuel Systems and Emissions Control | (60 hours) |
| Module 5: Transmission and Drivetrain | (60 hours) |
| Module 6: Suspension, Steering, and Brake Systems | (80 hours) |
| Module 7: Entrepreneurship in the Automotive Industry | (20 hours) |

(B) Main Objectives of the Course:

1. Understand the principles and fundamentals of general light vehicle mechanics.
2. Develop practical skills in diagnosing and repairing common issues in light vehicles.
3. Gain knowledge of engine systems, electrical systems, fuel systems, and transmissions.
4. Learn about suspension, steering, and brake systems in light vehicles.
5. Acquire entrepreneurship skills and knowledge relevant to the automotive industry.
6. Foster a strong work ethic, professionalism, and effective communication skills.
7. Promote safety practices and ethical behavior in the automotive industry.
8. Enhance problem-solving abilities and critical thinking skills.
9. Cultivate teamwork and collaboration skills.
10. Encourage lifelong learning and staying updated with the latest advancements in the field.

(C) Main Goals and Aims of the Course:

1. To provide a comprehensive understanding of light vehicle mechanics.
2. To develop practical skills through hands-on training and real-world scenarios.
3. To equip students with entrepreneurial skills and knowledge to succeed in the automotive industry.
4. To foster a sense of responsibility, professionalism, and ethical behavior in the field.
5. To bridge the gap between theoretical knowledge and practical application.
6. To empower students to start their own automotive-related businesses.
7. To contribute to the economic growth and development of Zambia and other African countries.
8. To reduce unemployment rates by producing skilled graduates in the automotive industry.
9. To promote sustainable transportation solutions and environmental consciousness.
10. To prevent the migration of African youth to Europe by providing local opportunities for growth and development.