

Practice for Maintenance:Part5

Automobile

Syllabus Number

1K312

Special Subjects
Elective 3 credit

KATO Akira

1. Course Description

Understand the functions of the automobile's automatic transmission, suspension, axle, wheel alignment, brake, steering, and maintenance. In this course, you will acquire techniques and knowledge related to the Diploma Policy 4, 5.

2. Course Objectives

We will explain the functions of automobile's transmission, suspension, axle, wheel alignment, brake and steering. Also, students can disassemble and assemble a car.

3. Grading Policy

Grades will be evaluated by periodic test (50%), report (50%).

4. Textbook and Reference

Textbook

<Textbook>

- Automobile mechanic training course third grade (Chassis version), Japan Automobile Maintenance Promotion Association Federation/ Ministry of Land, Infrastructure and Transport Supervision.
- Automobile mechanic 2nd grade gasoline car/ Diesel car (Chassis version), Japan Automobile Maintenance Promotion Association Federation/ Ministry of Land, Infrastructure and Transport Supervision.

5. Requirements(Assignments)

- Perfect attendance is necessary to pass the unit of this lecture. We will monitor late comers, leaving class early and absence.
- Students must wear uniforms, hats, safety shoes specified by the school and bring your own tools.
- This lecture is a compulsory subject of the Automobile Technology course.

6. Note

7. Schedule

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| [1] | Automatic transmission : Practice on structure, motion and function |
| [2] | Automatic transmission : Practice on disassembly |
| [3] | Automatic transmission : Inspection, practice on brake / clutch |
| [4] | Automatic transmission : Practice on assembly |
| [5] | Automatic transmission : Practice of shift characteristic chart |
| [6] | Automatic transmission : Practice of safety equipment |
| [7] | Suspension, axle : Practice on structure, motion and function |
| [8] | Wheel alignment : Practice on structure, motion and function |
| [9] | Wheel alignment : Practice of adjustment (camber, caster, king pin inclination, toe) |
| [10] | Wheel alignment : Practice of adjustment (camber, caster, king pin inclination, toe) |
| [11] | Steering : Practice of structure, function, disassembly, assembly, inspection and adjustment |
| [12] | Brake : Practice of structure, function, disc, drum and parking brake |
| [13] | Disc, drum and parking brake : Practice of disassembly, assembly, inspection and adjustment |
| [14] | Disc, drum and parking brake : Practice of disassembly, assembly, inspection and adjustment |
| [15] | Test, summary |