



Balai Pengembangan Talenta Indonesia
Pusat Prestasi Nasional
Kementerian Pendidikan, Kebudayaan, Riset, dan Teknologi

**MERDEKA
BELAJAR**



SMK

Kisi-Kisi

Lomba Kompetensi Siswa Nasional 2024

Teknologi Otomotif Mobil
(*Automobile Technology*)



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KISI – KISI MODULE A

- A. Vehicle : Toyota All New Kijang Innova Zenix HEV
- B. Task : Engine Management System and Hybrid
- C. Time : 60 Minutes
- D. Instruction :
 - 1. Health, safety and house keeping
 - 2. Deactivate and Activate of High Voltage system, before and install HV Battery
 - 3. [REDACTED] [REDACTED]

KISI – KISI MODULE B

A. Vehicle : Daihatsu All New Xenia 2022 – 2024

B. Task : Electrical System

C. Time : 60 Minutes

D. Instruction :

1. Health, safety and house keeping
2. There are 4 system that must be repaired:

[REDACTED]
[REDACTED]
[REDACTED]
[REDACTED]

Remember, this is a mixed system, so it's not just the electrical body system. We will open all systems during the technical meeting at the location.

KISI – KISI MODULE C

- A. Vehicle : Engine 1NR-VE
- B. Task : Engine Mechanical
- C. Time : 45 Minutes
- D. Instruction :
 - 1. Health, safety and house keeping
 - 2. Remove Engine External and Internal Components
 - 3. Cylinder Bore and Piston Measurements
 - 4. Crankpin Bearing Measurement
 - 5. Camshaft Measurements
 - 6. Assembling Engine External and Internal Components

***Tolerance 3, 4, and 5: 0,02 mm**

**For Competitions, please
read and understand
the technical description**



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