

全方位掌握汽车领域所有重要技能。

Master all the important skills needed for the full range of automotive.



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NEW ERA
INSTITUTE
OF VOCATIONAL & CONTINUING EDUCATION
新纪元技职与推广教育学院
LO2635
Owned by Dong Jiao Zong Higher Learning Centre Bhd (232570A)



PTM
INSTITUTE
LO2669

汽车科技与交通工程 汽车与商用汽车维修

Automotive Technology and Transportation Engineering

Auto-Mechatronics Diagnostics & Contemporary Diesel Technology (AMDCT)

▲ 80% 实践训练
80% Practical Skills

▲ 20% 理论
20% Theory

▲ 2年课程
2 Years Learning

▲ 16岁以上即可报读, 无需入学资格
Entry Requirement: 16 Years Old & Above

▲ 教学媒介语以中文为主, 英文为辅
Medium of Instruction: Chinese & Simple English

汽车与商用汽车维修

Auto-Mechatronics Diagnostics & Contemporary Diesel Technology (AMDCT)

2年课程

Years Course

此两年的专业技职教育课程为学生提供现代化汽车领域的全方位实践技能与专业知识，包括时下所需的重要维修保养技能、商用车、汽车销售以及汽车维修保养等。课程着重于学生的技术表现、品格塑造与态度培养。

The two-year professional technical and vocational education course provides students with a full range of practical skills and expertise in the field of modern automobiles, including important repair and maintenance skills needed today: modern automobiles, commercial vehicles, automobile sales, and automobile maintenance and other fields. The course focuses on student's technical performance, character and attitude.

学生将学习 / Students will learn and be able to:

- ▲ 现代化汽车的高端维修技术和专业诊断技能。
High-end maintenance technology and professional diagnostic skills for advanced cars.
- ▲ 掌握独特的汽车销售顾问技巧。
Master unique Sales Advisor skills (SA).
- ▲ 掌握独特的轻型商用车辆专业维修技术。
Master the unique professional maintenance technology of Light Commercial Vehicles (LCV).
- ▲ 深入了解数位化与科技化的汽车维修技术。
In-depth understanding of digital and technological maintenance skills.
- ▲ 全方位掌握汽车领域所有重要技能。
Master all the important skills needed for the full range of automotive.



课程内容 | COURSE OUTLINE

- | | | |
|--|---|--|
| <ul style="list-style-type: none">• 汽车车间实践
Automotive Workshop Practices• 引擎原理、操作、保养和维修
Vehicle Engine Principles, Operation, Service & Repair• 汽车电气和电子原理
Electrical & Electronic Principles for Vehicle Technology• 车辆电子点火系统的操作和测试
Operation & Testing of Vehicle Electronic Ignition Systems• 汽车充电和启动系统
Vehicle Electrical Charging & Starting Systems• 汽车燃料喷射系统功能与操作
Function & Operation of Vehicle Petrol Injection Systems• 汽车引擎管理系统
Vehicle Engine Management System (EMS)• 轻型汽车变速系统操作
Operation of Light Vehicle Transmission System• 汽车底盘系统操作
Operation of Vehicle Chassis System• 轻型汽车悬架系统
Light Vehicle Suspension System• 轻型汽车自适应转向系统
Light Vehicle Adaptive Steering System | <ul style="list-style-type: none">• 轻型汽车转向系统
Light Vehicle Steering System• 轻型汽车刹车系统
Light Vehicle Braking System• 防抱死刹车系统
Anti-lock Braking System (ABS)• 轮胎平衡和车轮定位
Tyre Balancing & Wheel Alignment• 汽车加热通风空调 (HVAC) 系统
Vehicle Heated Ventilation Air-Conditioning (HVAC) System• 涡轮增压器 / 增压器系统诊断
Turbocharger / Supercharger System Diagnostic• 辅助约束系统 (SRS) 操作
Supplementary Restraint System (SRS) Operation• 职场技术和软技能
Work-Based Technical & Soft Skill• 诊断策略
Diagnostic Strategy• 汽车引擎系统故障诊断
Vehicle Engine System Fault Diagnosis• 汽车变速系统故障诊断
Vehicle Transmission System Fault Diagnosis• 车身电子故障诊断
Vehicle Body Electrical Fault Diagnosis | <ul style="list-style-type: none">• 汽车底盘系统诊断
Vehicle Suspension System Diagnosis• 汽车转向系统诊断
Vehicle Steering System Diagnosis• 汽车刹车系统诊断
Vehicle Braking System Diagnosis• 柴油引擎系统
Diesel Engine System Operation• 柴油燃料喷射系统
Diesel Fuel Injection System• 重型汽车变速系统
Heavy Vehicle Transmission System• 重型汽车悬架技术与原理
Heavy Vehicle Suspension Technology & Principle• 重型汽车转向技术与原理
Heavy Vehicle Steering Technology & Principles• 重型汽车刹车技术与原理
Heavy Vehicle Braking Technology & Principles• 职场实习
Supervised Industrial Training (Internship) |
|--|---|--|
- * Please note that the modules listed are indicative and may be subject to change.



评估标准 | ASSESSMENT

100% 的作业和实践练习。汽车与商用汽车维修课程理论占20%，实践占80%，聚焦于现代化汽车工程的实际应用、专业维修护理技能，汽车、商用车、3S & 4S 经销与维修中心等领域。

100% assignment and practical exercise. The course offers both the theory (20%) and practice (80%) of Automotive, with a focusing on the practical application of modern automotive engineering and professional maintenance skills in the fields of automobiles, commercial vehicles, 3S & 4S centres.



考取资格 | QUALIFICATIONS

马来西亚国家技术发展局颁发之马来西亚技能证书
Sijil Kemahiran Malaysia

英国西苏格兰学院汽车科技专业文凭
Diploma in Auto-Mechatronics Diagnostics, West College Scotland, UK

英国西苏格兰学院汽车科技高级文凭
Advanced Diploma in Contemporary Diesel Technology, West College Scotland, UK.



就业前景 | CAREER PATHWAYS

首席技师、汽车维修主管、车间经理、培训经理、零件主管、汽车维修服务顾问、汽车诊断专家、技术主管、汽车销售主管、汽车经销顾问、汽车工程师、车辆专业检测师、汽车保险索赔与检测专员等。

Chief Technician, Car Maintenance Supervisor, Workshop Manager, Auto Training Manager, Auto Parts Supervisor, Service Advisor, Car Diagnostic Expert, Technical Supervisor, Sales Advisor, Car Distribution Consultant, Car Engineer, Vehicle Professional Inspector, Auto Insurance Claims and Inspection Specialist, etc.