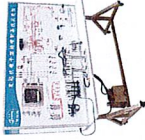
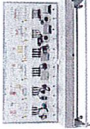
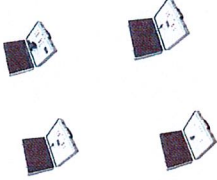
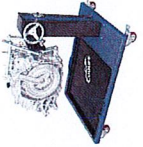
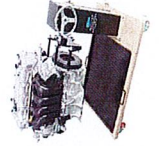
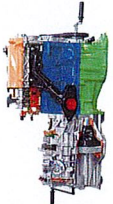


الكشف المرفق لدعوة العطاء رقم (ش و ٤ / ٢٠٢٥) والخاص بشراء وفنورد وتركيب مشغل صيانة السيارات الكهربائية والهجنه في معهد التميز الأردني للأمناء للطاقة الشمسية/ الواقع في محافظة المفرق التابع لشركة

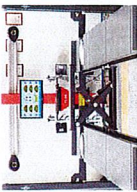
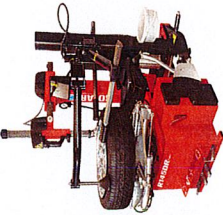
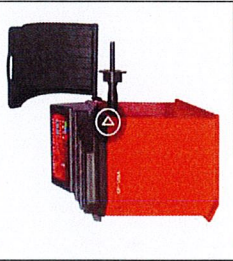
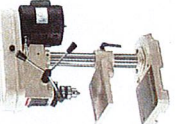
صورة المادة	السعر الإجمالي (دينار)	السعر الفردي (دينار)	الكمية المطلوبة	المواصفات الفنية بالتفصيل	الوحدة (unit)	اسم المادة	ت
			1	Learning simulator * Running Hybrid vehicle system for training purposes/Vehicle parts are original real working parts * Includes: 1. hybrid engine of 2L (+/-0.5)/ 2. CVT transmission with MG1 & MG2 electric motors/ 3. vehicle inverter/ 4. Cooling system/ 5. Fuel system including fuel tank/6. real HV Battery/7. Vehicle display screen * All control units should be clearly shown with all detection terminals easy accessed for inspection and measurement. / * Protection covers on all moving items for safety. / * All necessary relays, actuators and fuses and circuit breakers are installed on the system. / * OBDII DLC to use with electronic scan tool to test and diagnose faults. / * Electronic fault insertion mechanism (with 25 faults (+/-5)) to insert faults in the system for students to solve. / * Installed on a training panel or structure with lockable wheels to move the trainer easily. / * The circuit diagram of the system is printed with color in English. / * Operation manual and experiment sheets should be supplied to cover relevant competencies* Warranty at least one year after purchase. / * Delivery at most 2 months of issuing the purchase order.	عدد	Hybrid vehicle Training system	1
			1	* Training simulator panel * To explain the operating principle of Electronic Fuel Injection Systems. / * Real original parts of a common passenger car model. * Includes: fuel injectors, fuel pump, ignition coils, spark plugs, ignition switch, instrument cluster, ECU, accelerator pedal, all input sensors, all output actuators, fuel tank capacity 13 liters (+/-3), fuel pressure gauge, and throttle body. / * Test points to use measurement tools to test volts, resistance and signals of sensors and actuators. / * OBDII DLC is installed where the electronic scan tool can be used to test and diagnose. / * Equipped with electronic fault insertion system which can be used either remotely or direct entry by touch screen or key buttons, to insert faults in the system. / * Installed on a training panel or structure with lockable wheels to move the trainer easily. / * The circuit diagram of the system is printed with color in English. / * Powered with 220 VAC, 50Hz, with emergency switch, all necessary relays, actuators and fuses and circuit breakers are installed at the panel. / * Operation manual and experiment sheets should be supplied to cover relevant competencies. / * Warranty at least one year after purchase. / * Delivery at most 2 months of issuing the purchase order.	عدد	Electronic Fuel Injection System	2
			1	* Training Panel Simulator * Learning panel to understand the structure and working principle of six kinds of ignition systems: a. mechanical contact. / b. hall effect. / c. magnetic induction. / d. optical. / e. distributes less 2 coil. / f. Distribute less coil on plug. * All ignition types are of real original new vehicle parts. / * Installed at the panel with ignition switch. / * Test points to use measurement tools to test volts, resistance and signals of sensors and actuators. / * OBDII DLC is installed where the electronic scan tool can be used to test and diagnose. / * Equipped with electronic fault insertion system which and can be used either remotely or direct entry by touch screen or key buttons, to insert faults in the system. / * Installed on a training panel or structure with lockable wheels to move the trainer easily. / * The circuit diagram of the system is printed with color in English. / * Powered with 220 VAC, 50Hz, with emergency switch, all necessary relays, actuators and fuses and circuit breakers are installed at the panel. / * Operation manual and experiment sheets should be supplied to cover relevant competencies. / * Warranty at least one year after purchase.	عدد	Ignition System Training Panel	3
			1	Double-wishbone suspension with steering linkage must be complete front suspension and steering system with linkage. / Fixed on a table or a rotary arrangement, used for practice on assembly and disassembly training of steering. / System and suspension as well as brake hubs and rotors and wheel bearing. / All parts good working. / Clean, complete front suspension with coil spring, steering ends and steering linkage. / Rack and pinion steering assembly, wheel hubs with brake rotors. The trainee can understand the. / Steering angles like Castor, Camber and Toe in Toe out arrangement. Included all necessary accessories. Including: steering wheel, Steering Gear Box, front suspension system, carriage wheel, steering wheel, Electric control unit, torque sensor, voltage display, combination instrument, starting switch, speed of the car simulator, OBD diagnose interface. / Fault setting system, traversing carriage. / Adjustable torque size of Power Steering system according to different rotate speed and vehicle speed of engine. / Self-diagnosis system, the light must flicker when break down. / Turning angle to measure and adjust wheel alignment. / Measurement board: there are Engine electronic control system circuit diagram and 4mm measured terminal which is used to measure the voltage, resistance, frequency or waveform of circuit component. / Fault setting system: numeric keypad and intelligent wireless networks with Movable bench. / Trainer Dimensions (W x D x H): (1700*900*1100) mm - (2000 x 1250 x 1750) mm, movable with 4wheels / Inspect steering shaft universal joint, flexible coupling. / A three-phase or single-phase (380/220)V, (50-60)Hz, AC motor drives a booster pump to operate the steering wheel with installed a pressure meter that displays real-time oil pressure changes. / Max operating temperature: 50°C, Noise: 50-65db, Oil pressure gauge: (min0-20- max100-140) kg/psi. / Base frame is made of steel and the surface is paint-coated. Power: (1.5-3) KW, Rotation speed: 1000-1400 r/min. / Collapsible column, lock cylinder mechanism, and steering wheel. / Trainer must enable following: Disassemble, inspect, and reassemble rack and pinion steering gear. Remove and replace manual or power rack and pinion steering gear. / Inspect and replace manual or power rack and pinion steering gear inner track rod ends and gaiters. Inspect power steering fluid levels and condition. Diagnose power steering fluid leakage. / Remove, inspect, and replace power steering pump, mounts, and seals, pump belt, pump pulley, and pump belt Remove, inspect, and install coil springs and spring insulators. / Inspect, replace, and adjust track rod ends, track rod sleeves, and clamps. Remove, inspect, and install upper and lower wishbones, bushes, shafts, and rebound bumpers. / Remove, inspect, and install hub carrier assemblies. Inspect, remove, and replace dampers. Included all necessary tools & accessories. Training hours: 50 hrs. for (6-10) employees. / Guarantee: 2 years. / Warranty: 1 year (after end of Guarantee period).	عدد	Power Steering Sytem Trainer	4
			1	Hydraulic Brake System Training stand * A complete basic hydraulic braking system * Installed on a movable table or structure * Student can practice removal and replacing brake parts and can understand the structur and operation of braking system. * Composed of real vehicle parts including two front disc brake rotors, hubs and callipers, two rear drum brakes with axles, bearing and brake cylinders with shoe brakes lining, servo brake , master cylinder with oil reservoir and brake pedal with all brake piping, and four pressure gauges to disply brake pressurer for each brake line. * Large oil dripp pan installed at the bottom of the arrangement. * heavy duty lockable castor wheels for movability	عدد	Hydraulic Brake System Training Panel	5
			1	Dual Air Bag Training System Panel * A complete training simulator for Air Bag systems * To understand and practic on the Suplimental Restaint System (SRS) * Composed of all working real vehicle parts , of not deployed driver and passenger air bags, Air Bag ECU, Pretensioned Seat Belts for driver and passenger * Supplied with ignition switch and master switch * Includes simulation arrangement to demonstrat deploying of the airbags when accident occur , this simulation arrangement composed of air reservoir can be filled with air from the workshop air system , control valves , pressure gauge, accident trigger arrangement , and deployed driver and passenger air bags which can be filled with air rapidly when the accident trigger is energited. * Test points to use measurement tools to test volts, resistance and signals of sensors and actuators. * OBDII DLC is installed where the electronic scan tool can be used to test and diagnose * Equiped with electronic fault insertion system which and can be used either remotely or direct entry by touch screen or key buttons, to insert faults in the system. * Installed on a training panel or structure with lockable wheels to move the trainer easily * The circuit diagram of the system is printed with color in english. * Powered with 220 VAC, 50HZ, with emergency switch, all necessary relays, actuators and fuses and circuit breakers are installed at the panel. * Operation manual and experiment sheets should be supplied to cover relevant competencies * Warranty at least one year after purchase	عدد	Dual Air Bag Training System Panel	6
			1	Automotive Electrical Electronics System training Panel * To be used to understand low voltage electrical system on the hybrid and electric vehicles as well as normal vehicles. * Contains all major real vehicle low voltage systems include: Injection System , Ignition system, Starting system, charging system , Power Supply Batter, Wiper System , Lighting and warning system, Instrument Cluster , Sound system , ECU , Door control and central locking system, Window control system, horn and internal lighting system. * Test points to use measurement tools to test volts, resistance and signals of sensors and actuators. * OBDII DLC is installed where the electronic scan tool can be used to test and diagnose * Equiped with electronic fault insertion system which and can be used either remotely or direct entry by touch screen or key buttons, to insert faults in the system. * Installed on a training panel or structure with lockable wheels to move the trainer easily * The circuit diagram of the system is printed with color in english. * Powered with 220 VAC, 50HZ, with emergency switch, all necessary relays, actuators and fuses and circuit breakers are installed at the panel. * Operation manual and experiment sheets should be supplied to cover relevant competencies * Warranty at least one year after purchase	عدد	Automotive Electrical Electronics System training Panel	7



صورة المادة	السم الاجملي (بيتل)	السم الافرادي (بيتل)	الكمية المطلوبة	المواصفات الفنية بالتفصيل	الوحدة (unit)	اسم المادة	ت
			18	Automotive Sensors and Actuators trainers *to demonstrate the main sensors and actuators. / *Includes the following sensors: 1. ECT Engine Coolant Temperature (sensor) / 2. IAT Intake Air Temperature (sensor) 3. MAP Mass Air Flow (sensor) / 4. MAP Manifold Absolute Pressure (sensor) 5. CKP Crankshaft Position Sensor (sensor) / 6. CMP Camshaft Position Sensor (sensor) 7. HEIGHT SENSOR (sensor) / 8. HALL EFFECT (sensor) / 9. light sensor (sensor) 10 TPS throttle position sensor (sensor) / 11. Engine SPEED SENSOR (sensor) 12. OZ SENSOR (sensor) / 13. KNOCK SENSOR (sensor) *Includes the following actuators: 1. VVT Variable Valve Timing (actuator) / 2. RELAY (actuator) 3. MOTOR (actuator) / 4. TRANSDUCER (actuator) 5. SOLENOID VALVE (actuator) / * using real car sensors and actuators. / * detection pin point testing points to be used for detection and analysis using various measurement and signal analysis tools. / * The circuit diagram of the system is printed with color in English. * Operation manual and experiment sheets should be supplied to cover relevant competencies. / * Warranty at least one year after purchase.	عدد	Automotive Sensors and Actuators trainers	8
			2	Continuous Variable Transmission (CVT) Assembly and Disassembly training stand. / * fixed on a Swivel Stand. / * Composed of a working hybrid Transmission CVT fixed on a rotating swivel stand where the transmission can be rotated 360 degrees, and can be stopped with braking at any angle. / * With oil pan at the bottom of the stand. / * Proper arrangement of plate and fixing rods to fix the transmission and hold it safely. / * Lockable castor wheels for movability. / * CVT transmission of a common vehicle is fixed on the stand. / * All parts of the transmission are installed including parking brake motor, rotational speed sensor, motor cables. the transmission can be easily disassembled and assembled using the stand arrangement.	عدد	Continuous Variable Transmission (CVT) Assembly and Disassembly training with Swivel Stand	9
			1	Gasoline Engine Disassembly and Assembly Training Module * Working gasoline engine * Fixed on a rotating swivel stand, engine can be rotated 360 degrees, can be stopped at any angle. * With oil pan at the bottom of the stand * Proper arrangement composed of plate and fixing rods to fix the engine and hold it safely. * Movable; lockable castor wheels. * Specs of the engine: a gasoline hybrid engine of a common vehicle type 2 liter (1/0.4) * clean painted engine of good condition * All main parts of the engine are installed: intake manifold, exhaust manifold and rear flywheel and damper clutch, with the electric water pump and crankshaft pully * Ignition parts are installed: injectors spark plugs with coils, engine cooling temperature sensors, camshaft sensor , crankshaft sensor and V T solenoids.camshaft and cylinder head cover. / * Warranty at least one year after purchase.	عدد	Gasoline Engine Disassembly and Assembly Training Module with Swivel Stand	10
			1	Training cutaway model using parts of a new generation hybrid vehicle. / Main parts of gasoline-electric hybrid power system are cutaway to show the internal structure for students to learn the mechanics of a hybrid vehicle. / * The engine, MG1, MG2 are driven by 220V electric motor to demonstrate the working process of main parts in hybrid power system. / * Energy flow direction among the hybrid power system is simulated showing the running status of gasoline engine, MG1, MG2, HV battery during driving modes (starting, driving at low, normal and full speed, charging and stopping). / * Real vehicle parts are used: gasoline engine cutaway, CVT cutaway, inverter assembly cutaway and HV battery with cut cover. / * The moving parts are equipped with protection covers. / * Emergency stop and earth leakage protection. / * Necessary relays, actuators and fuses and circuit breakers are installed on the system. / * The circuit diagram of the system is printed with color in English. * Operation manual and experiment sheets should be supplied to cover relevant competencies. / * Warranty at least one year after purchase. /	عدد	Hybrid vehicle system cutaway	11
			1	high-quality performance battery charger powered by electricity and is available in model numbers 106020 to 106050. It features a durable orange design and is packaged in a color box. The charger comes with CE certification and a one-year warranty. The single package size of 65 x 33.5 x 29.5 cm and a gross weight of 21.9 kg. / * Warranty at least one year after purchase.	عدد	low voltage battery charger	12
			5	LAUNCH MTM-100 is a Multi-Functional Automotive Multimeter with advanced vehicle troubleshooting capabilities as well as many more features. Equipped with a large display and the ability to test pulse width, RPM, Temperature and 12V battery tests. /DC Voltage: 600mV/6V/60V/600V/1000V ± (0.5%+3). /AC Voltage: 6V/60V/600V/1000V ± (0.8%+3) AC Current: 6mA/60mA .600mA/10A (20A for 10s max) ± (0.8%+8). /Resistance: 600Ω/60KΩ/60MΩ ± (0.8%+3)/Capacitance: 10nF/100nF/1μF/10μF/100μF/1mF/10mF/100mF ± (3%+10)Frequency: 10Hz – 10MHz ± (0.1%+5)/Pulse Width 999 9mS: ± (1.5%+10)/Display count: 6000/Power: AAA 1.5V*2/ * Warranty at least one year after purchase.	عدد	multi meter	13
			1	SmartSafe ACS19 A/C Service Station is a fully automatic, intelligent automobile air conditioning maintenance system that integrates multiple functions to enhance vehicle A/C performance. It supports both R134A and R1234YF refrigerants and features forward, reverse, and pulse cleaning modes for thorough pipeline maintenance. The device is equipped with an automobile refrigerant model database, eliminating the need for manual settings, and includes a built-in printer for documenting materials and work hours. Its automatic mode allows for seamless execution of cleaning, recovery, vacuuming, and refrigerant filling operations. The ACS19 is designed to address issues such as poor cooling efficiency, high compressor load, excessive noise, and increased fuel consumption in vehicle air conditioning systems. / * Warranty at least one year after purchase.	عدد	AC recovery Machine	14
			2	Introducing the latest of LAUNCH X-431 diagnostics: the Launch Pad IX link! The most powerful diagnostic tool ever to be made by LAUNCH to date, with advanced dealer level programming functionality and an abundance of high end features. When optionally combined with the LAUNCH XProg 3 programmer, even more capabilities are unlocked, such as bench mode programming, giving you maximum benefits out of a professional diagnostic machine. Operation System Android 13.0/ * Warranty at least one year after purchase.	عدد	scan tools Launch X431	15
			1	air compressor Must be double-stage industrial air compressor, designed for heavy-duty use. Air Displacement: 1210 liters per minute (L/min). /Power:5.5 kw (7.5 HP) Maximum Pressure: 11 bar. /Speed: 1250 rpm. /Tank Capacity: 500 liters. /Stages: 2 (Double stage). /Lubrication: Oil-lubricated. /Voltage: 400V - Three-phase. /Noise level: Approximately 78 dB(A). /Cooling: Air-cooled. /Dimension: 2030x680x1400. / * Warranty at least one year after purchase.	عدد	air compressor	16
			1	The LAUNCH ES200 is a professional insulation resistance tester designed for assessing the insulation integrity of high-voltage components in hybrid and electric vehicles. Its technical specifications are as follows: Battery Capacity: 3,150 mAh/Voltage Types Measured: Both DC and AC Voltage Resolution: 1 V/ Display: 5-inch LCD screen/ Measurement Accuracy: ±3% Test Voltages and Corresponding Measurement Ranges: 500 V: 10.0 MΩ to 20 GΩ/1,000 V: 10.0 MΩ to 40 GΩ/2,500 V: 10.0 MΩ to 100 GΩ/5,000 V: 10.0 MΩ to 1,000 GΩ Open Circuit Voltages:500 V Setting: DC 500 V (0 ~ 20%) /1,000 V Setting: DC 1,000 V (0 ~ 20%) 2,500 V Setting: DC 2,500 V (0 ~ 20%) /5,000 V Setting: DC 5,000 V (0 ~ 20%) Measurement Accuracy Details:0.0 ~ 99.9 MΩ: ±3% + 5/100 MΩ ~ 9.99 GΩ: ±15% + 5/10.0 GΩ and above: ±10% + 5/Short-Circuit Current: Less than 3.0 mA. / * Warranty at least one year after purchase.	عدد	Megger	17
			1	Complete working Electric Vehicle, 2016 - manufacturing year or above.All vehicle accessories (Jack, Tire socket and handle, Tire inflator and foam, Fire extinguisher ... etc.) are available). ALL Vehicle systems are working properly. Chassis had been cut in 4 places.The Vehicle will be used for training. contain lithium-ion or nickel metal battery, Battery air cooling system. Electric hand brake system. Normal suspension system.Four wheel brake system. vehicle with good external paint. Vehicle battery capacity : not less than 24 kWh. Guarantee: 1 year.	عدد	electric vehicle Nissan Leaf complete	18
			1	8 bar used for dismantling and testing models 2012 to 2018, with closed cover , service plug , PCM ,Wire connections , weight less than 550 kg, 24 kw and more, Lithium Ion, liquid or air cooling nominal voltage 360 -400 volt, orang color shows the high voltage, each module contain gives 8.0 volts 7.9 accepted بطارية موجه مرتفع ٨ بار يستخدم لتفكيك واختبار موديلات ٢٠١٢ إلى ٢٠١٨ مع غطاء معقاي، قابس خدمة PCM، توصيلات سلكية، وزن أقل من ٥٥٠ كيلو وات وأكثر، الليثيوم أيون، سائل أو تبريد الهواء، الجهد الاسمي ٣٦٠-٤٠٠ فولت، برتقالي اللون يظهر الجهد العالي، كل وحدة تحتوي على بطاري ٨.٠ فولت ٧.٩ مقبول	عدد	EV battery 8 bar	19

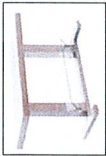
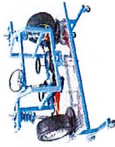
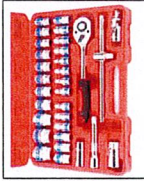
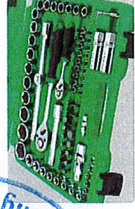


الكشف المرفق لدعوة العطاء رقم (ش و ٤ / ٢٠٢٥) والخاص بشراء وتوريد وتركيب مشغل صيانة السيارات الكهربائية والهجنبة في معهد التميز الأزدي للألماني للطاقة الشمسية/ الواقع في محافظة المفرق التابع للشركة

ت	اسم المادة	الوحدة (unit)	المواصفات الفنية بالتفصيل	الكمية المطلوبة	السعر الإجمالي (دينار)	السعر الفردي (دينار)	صورة المادة
20	EV battery 3 bar	عدد	3 bar used for dismantling and testing models 2012 to 2018, with closed cover, service plug, PCM ,Wire connections , wight less than 550 kg, 24 kw and more, lithium ion, liquid or air cooling nominal voltage 360 -400 volt, orang color shows the high voltage, each module contain gives 8.0 volts 7.9 accepted بطارية جهد مرتفع ٣ بارستخدم لتفكيك واختبار موديلات ٢٠١٢ إلى ٢٠١٨ مع قطاء مغناطيسي، قابس خلية، PCM توصيلات سلكية، وزن أقل من ٥٥٠ كجم، ٢٤ كيلو وات وأكثر، ليثيوم أيون، سائل أو توريد الهواء الجهد الاسمي ٣٦٠-٤٠٠ فولت، برتقالي اللون يظهر الجهد العالي، كس قفلت ٧,٩ مقبول	1			
21	Hydrilic Jack 1/2 ton	عدد	1/2 ton Reinforced design/Comfortable, soft grip/Double-rod rapid lift mechanism A rugged mechanism for lowering through the cardan/Soft-tube control grip protecting against accidental damage to the car./For professional use/ Overload valve/ Agile Rubber nozzle and repair./ Warranty at least one year after purchase.	2			
22	Safety stand	عدد	Heavy duty steel jack stand Multi position ductile ratchet bar Quick adjustment mechanism Material: Cast Iron Load Capacity: 3 ton Color: Red	10			
23	EV half car front	عدد	Used front-side vehicle cutting models 2012 to 2018, three-phase drive motor, reduction gear, max speed 16000 rpm with suspension and drive line, included inverter, converter, suspension, brake system, dashboard indicators , and ABS steering system. تشف سيارة - قطع مركبة أمامية مستعملة من ٢٠١٢ إلى ٢٠١٨، محرك دفع لثلاث أطوار، تروس تخفيض، السرعة القصوى دورة في الدقيقة مع نظام التعليق ونشط القيادة، متضمن توجيه عاكس، محور، تعليق، نظام فرامل، مؤشرات لوحة ١٦٠٠ القيادة، نظام توجيه ABS	2			
24	Hybrid Half car front	عدد	Used front sid vehicler cutting, three phase drive motor, reduction gear, mux speed 16000 rpm with suspension and drive line with suspension and drive line, included inverter , converter , suspension, brake system , dashboard indicators , abs system, steering system. محرك االزين مع ثلاث فاز محرك كهربائي مع جيو محرك كهربائي لا تزيد عن ١٦٠٠٠ نصف سيارة يحتوي جميع مكونات البوز	2			
25	complete working Hybrid Vehicle	عدد	Complete working Hybrid Vehicle, 2016- manufacturing year or above.All vehicle accessories (Jack, Tire socket and handle, Tire inflator and foam, Fire extinguisher ... etc.) are available). ALL Vehicle systems are working properly, Chassis had been cut in 4 places. The Vehicle will be used for training. contain lithium-ion or nickel metal battery. Battery air cooling system. Electric hand brak system. Normal suspension system.Four wheel brake system. vehicle with good external paint. Guarantee: 1 year.	2			
26	wheel alignment	عدد	Four Wheel Alignment, smart type and space saving with Wi-Fi connection-1. Full alloy aluminum tracking camera and movable beam (work level 0 - 2.1 m). Computer Controlled with 32" minimum monitor screen./4 targets with universal wheel damps 12"-M* Windows OS with Brand printer/Easy-to-understand symbols and easy-to-operate software Complete and up-to-date OEM specifications./Free car specifications database with 2 years' free update. 3D Animation alignment instruction for easy operation./3D measurement screen displayer with all relevant data./Vehicle dimensions and wheel rolling radius measurement. 2turntable Plates for front wheels./Track width Min45"-50"- Max 90"-100" Wheel base Min75"-80"- Max175"-185"/Steering Angle Sensor, Tire Diameter Unlimited Printer included, Steering wheel holder, Brake pedal depressor/Fixed variable-height, tilt camera support, with live reading./Vehicle orientation directional, variable height camera support Inlurer all necessary arrecories/Practical training on machine not less than 30 hrs., this includes any material and prangement will be used during training for (6-10) employees./ fully transportation and installation in site of project with all needs electricity, labor, material, tools etc./Any accessory, auxiliary,tools or spare parts needed for machine will be provided with minimum requirement pieces./Power: (1ph) (1-1.2)KW. uarantee: 1 year.(beginning after the completion of the installation and operation of the machine Warranty: 2 years (beginning after end of Guarantee period).	1			
27	Tire Changer	عدد	External clamping: Min (8"-10"), Max (22"-24")/Internal damping: Min (11"-12"- Max (24"-26") Min.& Max. wheel diameter: Min (100-120), Max (1120-1150) mm./Rim width: Min (2"-3"), Max (11"- 12"). Bed breaker range: Min (60-70), max (350-360) mm./Air connection: Min (8-10), Max (11-14) bar. Rotation speed: Min (8-10), Max (18-22) RPM./Tilt-back arm design and 4 assist arms. Pneumatic-lock locking system. The trapezoid column base and housing overall box welding design, more stability and reliability.180mm full aluminum double-inlet separation cylinder. Included all necessary accessories./Double-structure cabinet and five stiffeners inside, fer more stability, Plastic pole protection kit./Drawer control assembly, simple structure, fast and easy to maintenance. Sliding arm guarantees perfect locking./Air regulator assembly, Adjustable bucket holder for lubrication.1ps of the following: (Bead lever/Lubricant brush)/ Inflation gun system with pipe connections)/Power: (1ph) 2.4-3.0kw./Fully transportation and installation in site of project with all needs electricity, labor, material, tools, etc./Any accessory, auxiliary, tools or spare parts needed for machine must be provided with minimum requirement pieces./Practical training on machine not less than 30 hrs., this includes any material and arrangement will be used during training for (6-10) employees./Guarantee: 1 year. (beginning after the completion of the installation and operation of the machine)/Warranty: 2 years (beginning after end of Guarantee period).	1			
28	wheel balancer	عدد	Dynamic and static modes balance function. Electrical machine automatic stop when finish the measurement. Double LED display screen separate show the wheel inside and outside balance numeric Alloy wheel many combination measurement modes./ Self-calibration and diagnose function. Suit for different size wheel. Rim Diameter for all sizes 10" to 24". Rim width applicable for sizes [1.5" to 22"]/Rotation Speed: (rpm) 0-100, Cycle time: 6s, Laser H12: Inner and outer laser beam indicate the exac 12 efloc position in the dynamic balancing program. English language./Electromagnetic brake. Easy to paste lead. LED light is convenient for working lighting. Use Laser Beam to indicate exactly where to paste./Accurate automatic measurement of distance and diameter. Incude Protection disk. Cone set passenger car all sizes @ (44- 104) mm. Locking unit for Double centering with air locking. Caliper for automatic measurement of rim width. Calibration kit, Computer-controlled wheel balancer with pneumatic damping device.19" Touchscreen monitor with additional keyboard. Fully transportation and installation in site of project with all needs electricity, labor, material, tools etc. Include any needed accessory and auxiliary./Any accessory, auxiliary, tools or spare parts needed for machine will be provided with minimum requirement pieces./Power: (1ph) 0.5-0.7 kw. Practical training on machine not less than 30 hrs., this includes any material and arrangement will be used during training for (6-10) employees./Guarantee: 1 year. (beginning after the completion of the installation and operation of the machine)/Warranty: 2 years (beginning after end of Guarantee period).	1			
29	حجر جليج كهرباء grinder	عدد	Voltage: 230V/50Hz. Input Power: 3/4 hp. No-load Speed: 2950 rpm. Wheel Size: Ø200X20X32 mm. Guarantee: 1 year.(beginning after the completion of the installation and operation of the machine).	1			
30	Bench Drilling Machine	عدد	Safe and reliable Quality assured rotation radial drill press vertical bench drilling. Max. drilling capacity diameter 16-20mm steel./Minimum tapping capacity M16 Cast iron, M10 steel, Spindle speeds at (50Hz) :105-210-350-445- 700-890-1450-2900. IP44 protection./Minimum spindle travel 100-125 mm. Distance spindle axis and column more than(190-210) mm. Color: dark blue or grey. Included all necessary accessories./Minimum distance spindle nose to table more than (300-350) mm.Spindle speed Min(100-110)RPM –Max(2900-3000) RPM. Motor power(1ph)(700- 1000) watt./Drill chuck, Tapper sleeve, Wrench, Safety guard/ Vice, Rectangular table with T-slots, Oil channel and drill guard, stop gauge to control the drill depth./Drill head and table fastening pivots (360°), (8-10) steps in the gearbox with helical gears of steel and fiber material./Fully transportation and installation in site of project with all needs electricity, labor, material, tools, etc. include any needed accessory and auxiliary./ Spare parts must be provided with minimum requirement pieces./Guarantee: 1 year.(beginning after the completion of the installation and operation of the machine).	1			

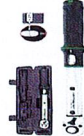
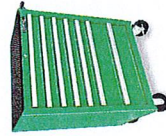
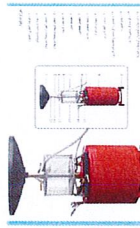


الكشف المرفق لدعوة العطاء رقم (ش و ٤ / ٢٠٢٥) والخاص بشراء وتوريد وتركيب مشغل صيانة السيارات الكهربائية والهجينة في معهد التميز الأردني الألماني للطاقة الشمسية/ الواقع في محافظة المفرق التابع للشركة

صورة المادة	الاسم (بندر)	السعر (بندر)	الكمية المطلوبة	المواصفات الفنية بالتفصيل	الوحدة (unit)	اسم المادة	ت
			1	Standard Floor Plate Two Post Hydraulic car lift Rated Capacity: 3.5 Ton (+/-0.5T) For lifting of various small and medium-sized vehicles. minimum lifting height 1950 mm (+/-110) Ground clearance 100 mm (+/-50) , stable lifting and lowering Electrical control box with power supply 220 VAC, 50 HZ Single Phase or 3 phase. Top limit switch to stop lifting vehicle when reach maximum height. With safety lock. 2 year warranty against manufacture defects Including installation and training at the training center	عدد	جك رفع سيارات هايبروليك هيدروليكي بذراعين (3.5طن)	31
			1	Rectangular table with antistatic rubber cover 130 cm length(+/-20) x70 cm width (+/-10) x80 cm (+/- 2) Made of steel tubular frame, primed and painted Can be used for heavy objects like engines Weight capability 450 kg (+/-50) static load.	عدد	طاولة عمل معزولة السطح بمطاط	32
			1	Standard On Floor Scissor hydraulic car lift (Rated Capacity: 4Ton or more), applicable for the lifting of various small and medium-sized vehicles. minimum lifting height not less than 1850 mm, with additional central Scissor lift to lift the vehicle from chasis to service wheels and tyres. to be provided with suitable design to be used for wheel alignment. power supply 250 VAC single phase or 3 phase, 50HZ. control box includes operating system of 12 or 24 Volts DC. safety locks for main lift and secondary lift.the wheel alignmet turntables can be placed at the main lift with suitable locations, suitable for different vehicles with different wheel base./Power: 2.2 kW./Min. height: 330-350mm/Platform length: 1430-1450mm./Lifting time: <50s./2 year warranty against manufacture defects Including installation and training at the training center	عدد	جك مقص كهيراء وهايبروليك ليبرون ستيرج السيارات	33
			1	The MacPherson Strut Assembly and Disassembly Suspension System Trainer is a front-wheel independent suspension educational rig designed for automotive training purposes. It features a complete MacPherson suspension setup including coil springs, oil-filled shock absorbers integrated into the struts, lower control arms, steering knuckles, and disc brake assemblies. Mounted on a durable powder-coated steel frame, the trainer allows for visual demonstration of suspension compression, extension, and alignment behavior. The system is fully mechanical and does not require power, making it ideal for classroom or workshop environments. The unit may include optional steering linkages and is built for safety and stability during hands-on training. It provides a clear educational platform for automotive vocational students and instructors to explore the principles and functionality of a MacPherson strut system./2 year warranty against manufacture defects Including installation and training at the training center	عدد	MacPherson suspension assembly and disassembly trainer.	34
			1	Brand: Elite China 2.5 Ton (+/-1) Portable boom Crane Used to remove engines Foldable With one cylinder with lifting and lowering control Heavy duty wheels. Heavy-duty welded construction The boom include sliding beams to be adjusted at different positions With hook and lifting chain. 2 year warranty against manufacture defects.	عدد	Portable crane	35
			1	Brand: TOPTUL TAWIAN Item code: GZC1610 Plastic box: W373 x D289 x H56 (mm) 3/8" Dr. VDE 45 Teeth Insulated Reversible Ratchet Handle with Quick Release 3/8" Dr. VDE Insulated 6PT Flank Sockets - 8, 10, 12, 13, 14, 17, 19, 22 mm 3/8" Dr. VDE Insulated Hex Bit Sockets - 4, 5, 6, 8 mm 3/8" Dr. VDE Insulated T-Handle with Quick Release 3/8" Dr. VDE Insulated Extension Bar with Quick Release - 6" and 10" (L)	طقم	16 PCS 3/8" DR. VDE 6 PT Flank Socket Set	36
			2	Item code: FBEB series Expert quality, specially hardened and tempered SNCR-M-V Steel round blade Blade insulation meets VDE and international standard DIN EN/IEC 60900 High performance black hardened, magnetic tip PPA-TPR material non-slippery grip handle PH0 / PH1 / PH2 / PH3	عدد	4 PCS VDE Insulated Phillips Screwdrivers معزول	37
			2	Brand: TOPTUL TAWIAN Item code: DGC2208 Chrome Molybdenum Steel Material Handles insulation meets VDE and international standard DIN EN/IEC 60900 Precision-hardened pliers head for on-the-job toughness High-frequency hardened cutting edges for optimum power and durability Ergonomic comfort-grip handle Manufacturing according to DIN ISO 5746	عدد	VDE Insulated Combination Pliers 8 inch معزولة قطع	38
			2	Brand: TOPTUL TAWIAN Item code: DGC2206 Chrome Molybdenum Steel Material Handles insulation meets VDE and international standard DIN EN/IEC 60900 Short jaws and beveled cutting edges permit close cutting of wire Hot-twisted joints ensures smooth action and no handle wobble Ergonomic comfort-grip handle Manufacturing according to DIN ISO 5749	عدد	VDE Insulated Diagonal Cutting Pliers 6 inch معزولة	39
			2	Brand: TOPTUL TAWIAN Item code: GPAH1202 Double Open End Wrench (AAEJ series) Satin Chrome Finished METRIC(6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32)	طقم	Double Open End Wrench Set (12pcs) 32-6mm شقي	40
			2	Brand: TOPTUL TAWIAN ITEM NO: GPAH1202 Double Ring Wrench 45° Offset (AAEH series) Satin Chrome Finished METRIC(6x7, 8x9, 10x11, 12x13, 14x15, 16x17, 18x19, 20x22, 21x23, 24x27, 25x28, 30x32)	طقم	Double Ring Wrench Set (12pcs) مغناطيس رينغ	41
			1	Socket 108 pieces kit./Satin Chrome Finished Contents: 13 BAEAO804-0814 1/4" Dr. 6PT Flank Sockets 4, 4.5, 5, 5.5, 6, 7, 8, 9, 10, 11, 12, 13, 14 mm 8 BAEEO806-0813 1/4" Dr. 6PT Flank Deep Sockets 6, 7, 8, 9, 10, 11, 12, 13 mm 5 BAEOD804-0808 1/4" Dr. Star Sockets E4, E5, E6, E7, E8/4 BCDA0803-0806 1/4" Dr. Hex Bit Sockets 3, 4, 5, 6 mm./7 BCFA0808-0830 1/4" Dr. Star Bit Sockets T8, T10, T15, T20, T25, T27, T30 3 BCCA0804-086E 1/4" Dr. Slotted Bit Sockets 4, 5, 5.5, 6, 6.5 mm./2 BCAA08P1 & 08P2 1/4" Dr. Phillips Bit Sockets PH1 & PH2./2 BCB408P1 & 08P2 1/4" Dr. Pozl Bit Sockets PZ1 & PZ2 1 CIBG0815 1/4" Dr. 36 Teeth Reversible Ratchet Handle with Quick Release 2 CAAA0802 & 0804 1/4" Dr. Extension Bar - 2" & 4"./1 CTCX0811 1/4" Dr. Sliding T-Handle 1 CAHA0840 1/4" Dr. Universal Joint./1 CAIA0815 1/4" Dr. Spinner Handle 3 AGASIE05-2E06 Short Type Hex Key Wrenches 1.5, 2, 2.5 mm./17 BAEA1610-1632 1/2" Dr. 6PT Flank Sockets 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24, 27, 30, 32 mm./5 BAEIE1614-1622 1/2" Dr. 6PT Flank Deep Sockets 14, 15, 17, 19, 22 mm./8 BAED1610-1624 1/2" Dr. Star Sockets E10, E11, E12, E14, E16, E18, E20, E24./5 FSDA1007-1014 5/16" Hex Shank Hexagon Insert Bits 7, 8, 10, 12, 14 mm./5 FSEA1040-1060 5/16" Hex Shank Star Insert Bits T40, T45, T50, T55, T60./3 FSA1008-1012 5/16" Hex Shank Slotted Insert Bits 8, 10, 12 mm 2 FSB41003 & 1004 5/16" Hex Shank Phillips Insert Bits PH3 & PH4./2 FSCA1003 & 1004 5/16" Hex Shank Pozl Insert Bits PZ3 & PZ4./1 CBG1627 1/2" Dr. 36 Teeth Reversible Ratchet Handle with Quick Release./2 CAAA1605 & 1610 1/2" Dr. Extension Bar - 5" & 10"./1 CAHA1678 1/2" Dr. Universal Joint./2 BAAR1616 & 1621 1/2" Dr. Spark Plug Sockets - 16 & 21mm./1 FTAB1610 1/2" Dr. x 5/16" (H) Quick Change Bit Holder./1 CAGA1216 3/8" (F) x 1/2" (M) Dr. 3-Way Adapter	طقم	صندوق بوكسات (108 قطع)	42



الكشف الموفق لدعوة العطاء رقم (ش و ٤ / ٢٥ / ٢٠٢٥) والخاص بشراء شراء وتوريد وتركيب مشغل صيانة السيارات الكهربائية والهجيبة في معهد التميز الأردني للأمناء للطاقة الشمسية/ الواقع في محافظة المفرق التابع للشركة

صورة المادة	السعر الاجملي (بند)	السعر الافادي (بند)	الكمية المطلوبة	المواصفات الفنية بالتفصيل	الوحدة (unit)	اسم المادة	ت
			1	5-25NM./L(mm) 290./Chrome Molybdenum Steel Ratchet Head Flip reverse ratchet action./Spring ball socket retention and push-button quick release Push to lock / pull to unlock scale setting feature. Large digits for exact and easy-to-read torque setting./Convex display simplifies readingErgonomically designed, Nylon material anti-slip handle./Tolerance of torque accuracy ±3% CW./Window Display	عدد	1/4" Micrometer Adjustable Torque Wrench (Window Display)	43
			1	Item code: ANAM1620 Chrome Molybdenum Steel Ratchet Head Flip reverse ratchet action Spring ball socket retention and push-button quick release Push to lock / pull to unlock scale setting feature Large digits for exact and easy-to-read torque setting Convex display simplifies reading Ergonomically designed, Nylon material anti-slip handle Tolerance of torque accuracy ±3% CW	عدد	Micrometer Adjustable Torque Wrench 1/2" 40 - 200 N	44
			3	20 Blades made of hardened Spring Steel Thumb notch design of blade protector to aid in removal of blades Chrome plated steel protector with locking knurl nut	طقم	20PCS Metric Feeler Gauge (Tapered Tips0.05-1.00 mm)	45
			1	5 Medium and 2 Large Drawers./Smooth Ball Bearing Slide Drawers 100% Fully Opening and Retractable Drawers./Loading Capacity Per Drawer 30 kg Static Load Capacity 200 kg./9mm EVA Material Top Mat Electro-Powder Coating to Resist Scratches and Solvent Markings Standard 5"x1-1/4" PP Casters with Lock (2 Fixed Casters and 2 Swivel Casters with Lock)./Supplied with Drawer Liners./Size(W)(D)(H)mm./Overall: 681x459x823 Overall w/caster: 681x459x963./5 Drawer: 578x378x75./2 Drawer: 578x378x155	عدد	7-Drawer Mobile Tool Trolley - Economic series - Green5	46
			1	طقم اصلاح بناشر اطارات السيارات يشمل جميع المستلزمات	طقم	كت بناشر كامل	47
			1	Tire balance kit	طقم	طقم ميزان الإطارات	48
			1	السعة الإجمالية: (٨٠٠ - ٧٠٠ لتر) /ضغط التشغيل: ٨-١٠ بار /سعة حوض التجميع العلوي: (١٢٠٠ - ١٠٠٠ لتر) الوزن الصافي: (١٤ - ١٦) كجم /الأبعاد التقريبية : 160x110 (سم) الارتفاع قابل للتعديل ، قطر الوعاء (حوالي ٤٠ سم). درجة حرارة التشغيل : (٤٠ - ٦٠) درجة (درجة حرارة زيت المحرك). السوائل التي يمكن العمل عليها : زيت المحرك (وأي سوائل أخرى). الماكينة مزودة بمجالات كي يمكن تحريكها بسهولة. كخانة سنة واحدة من تاريخ التوريد.	عدد	ماكينة تفريغ الزيت من السيارة	49
			2	دليل بناشر ٢/١ لتر /دليل قوي لشد الصواميل / البوكسات قابلة للتغير بسهولة. مقاومة الحموله الزائدة وارتفاع درجة الحرارة /مقبض مطاقي لقيضة مريحة /القدرة على العمل دون توقف لفترة طويلة. القدرة على شد وثبيت الصواميل بسهولة. استهلاك الهواء ١٤٣ لتر / دقيقة /عزم الدوران ٦١٠٠ نيوتن متر / كخانة سنة واحدة من تاريخ التوريد.	عدد	درل فك بناشر هوائي	50
			2	with Built-in Air Bleeder Valve, Backlit LED - 100 PSI Easy Read Air Gauge for Cars, Trucks, Motorcycles, Bikes - Mechanic Certified ANSI Accurate	عدد	Digital Tire Pressure Gauge	51
			1	بلاستيك	عدد	محقان لصب البنزين	52
			1	5L pneumatic gearbox oil filling machine, equipped with 5 ATF adapters, gearbox	عدد	جهاز تعبئة زيت علبة التروس الهوائية	53
			1	projector must be designed for delivering high-quality presentations and images. It offers XGA resolution (1024 x 768 pixels), ensuring clear and detailed visuals suitable for various settings. The projector boasts a brightness of 3,200 lumens, providing vibrant images even in well-lit environments. Its contrast ratio of 10,000:1 enhances the depth and clarity of the displayed content. Equipped with a built-in 10W speaker, the projector delivers adequate audio output for presentations without the need for external speakers. The projector operates quietly at just 29dBA in Eco Mode, minimizing distractions during use. Its compact design and lightweight build make it easily portable, catering to professionals who require mobility. The projector also features multiple connectivity options, including HDMI and VGA ports, allowing seamless integration with various devices. Additionally, it supports 3D content via the DLP-Link system, offering versatility for different presentation needs. The long-lasting lamp life of up to 6,000 hours in Eco Mode ensures reduced maintenance and operational costs. Overall, the projector must combines functionality and convenience, making it suitable for business presentations, educational purposes, and other professional applications./Warranty at least one year after purchase.	عدد	جهاز داتا شو (عرض تقديمي) كامل	54
			2	1 set of automotive shock absorber spring compression tool - specialized disassembly and installation kit, suitable for vehicle mai	طقم	طقم فك مرابط الصنوبرصات	55
			1	1 pc Flexible Magnetic Grabber Pickup Tool - 60cm Metal Retrieval Tool with Extendable Bendable Neck for Picking Up Screws/Nuts/Bolts/Keys - No Electricity Needed	عدد	مغناطيس مع سلك لولبي طويل	56
			1	Special high voltage insulation suit	عدد	بدلة عزل خاصة للفولتية العالية	57

