

Item no.: 358638

AKX04020 - Arduino Certification Bundle: Kit & Exam (German)

from **93,32 EUR**

Item no.: 358638
shipping weight: 0.30 kg
Manufacturer: Arduino

Product Description

The Arduino Certification exam + kit bundle includes an Arduino Starter Kit and access to the certification exam.

Developed in consultation with interaction designers and electronic engineering professionals as well as in regards to leading technology curriculum, the Arduino Certification exam assesses skills based upon exercises comprised of practical tasks from the Arduino Starter Kit.

To obtain the certificate, you will be requested to answer 36 questions over a period of 75 minutes.

Purchasing the bundle will grant you the Arduino Starter Kit and an activation code, which can be used to unlock 1 attempt at the Arduino Certification exam.

Purchasing the exam alone costs \$30, and grants 1 attempt at the Arduino Certification.

Once the code has been redeemed, you have one year to activate the exam, otherwise the code will become invalid.

The exam is available in English, Spanish, Italian, German and Chinese.

Exam Subject Areas

You will encounter questions that test your knowledge in relation to the following 8 main categories:

1. Electricity. Understanding the concepts such as resistance, voltage, power and capacitance, and the ability to measure and calculate them.
2. Reading circuits and schematics. Understanding how electronics are represented visually, and the ability to read and analyze electronic circuits.
3. Arduino IDE. Understanding the functionality of the Arduino development environment, serial communication, libraries and errors.
4. Arduino Boards. Understanding the constitution and capabilities of an Arduino board and the functions of its different parts.
5. Frequency and Duty cycle. Understanding the concepts of Pulse Width Modulation (PWM) and frequency, and being able to calculate duty cycle.
6. Electronic components. Understanding how various electronic components such as LEDs, sensors, buttons and motors work, and how to use them in a circuit.
7. Programming syntax and semantics. Understanding the building blocks of the Arduino programming language such as functions, arguments, variables and loops.
8. Programming logic. Ability to program various electronic components, read, analyze and troubleshoot Arduino code.

Specifications

Scan this QR code to
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All details, up-to-date
prices and availability

