Arduino WORKSHOP 101

TRAINING: ARDUINO WORKSHOP 101

Communica will host a monthly Arduino 101 Workshop. The course will introduce students to Arduino Boards and Arduino C Programming using Arduino hardware and includes a practical session with an Arduino Workshop Kit.

Target Group
- Students with an interest in Arduino and C Programming

Requirements
- No prior knowledge needed.
- **Bring own notebook/laptop**.

What you will learn
- ✓ Introduction to Arduino board and C Programming using Arduino hardware
- ✓ C Programming
- ✓ Practical Session

Cost:
R1,990-00 Per student

Includes:
- Each student will receive an **Arduino Workshop Kit** to take home after completion of the course
- Training Slide Manual
- Certificate of Attendance

Course Duration: 2 Days
The course will be divided In two day sessions:
- **Saturday 1**: Theory - 5 hours (8:00 – 13:00)
  Content: C-Code using an Arduino Board to illustrate the statements
- **Saturday 2**: Practical - 5 hours (8:00 – 13:00)
  Content: Practical session using an Arduino Board to interface components of the Arduino Workshop Kit.

So, get plugged in and register for this training course today! Limited Seating.

TRAINING ONLY AVAILABLE @ COMMUNICA SAMRAND BRANCH
HEAD OFFICE - SAMRAND

Communica Building
53 Landmarks Avenue, Samrand, Centurion
Send your enquiries to
✉ training@communica.co.za

For More Information Call:
☎ 061 940 8143 - Theunis

Course Content

Number Systems

Arduino Boards
- Arduino Nano
- Arduino Uno
- Arduino Mega
- Shields

Arduino Integrated Development Environment (IDE)

Arduino C Programming Introduction
- Comments
- Variables
- Value Types
- Variable Scope
- Arithmetic
- Typecast
- Compound Assignment
- Comparison Operators
- Logic Operators

Arduino I/O Pins
- Digital PIN's
- Analogue PIN's

Pulse Width Modulation (PWM)

C Programming with Hardware
- ❖ Hardware Setup
  - Statements
    - ✓ For statement
    - ✓ For statement – nested loop
    - ✓ If statement
    - ✓ If else statement
    - ✓ Case statement
    - ✓ Infinite statement
    - ✓ While loop
    - ✓ Do while loop
  - Functions

Arduino Workshop Kit

Hands-on with kit components

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