

Coding and Robotics

Level 1 – 3 Course Registration

**Register
NOW**

Book now for your Coding and Robotics Level 1 – 3 Coding and Robotics Training

Teachers training includes a Training Manual and Certification.

Personal Detail		School Details	
Name:		School:	
Surname:			
ID:		Address:	
Cell:		Town:	
Email:		Code:	

I am a Coding and Robotics teacher for the following grade / grades:

Gr R	Gr 1	Gr 2	Gr 3	Gr 4	Gr 5	Gr 6	Gr 7

Enrol me for the following online training:

Coding and Robotics Level 1:		Coding, Robotics Level 2 & FreeCAD:		Coding, Robotics Level 3 & HTML:	
Date:		Date:		Date:	
Time: 14:00 – 16:30 (2 afternoons)		Time: 14:00 – 16:30 (3 afternoons)		Time: 14:00 – 16:30 (3 afternoons)	
Price: R1800.00		Price: R1800.00		Price: R1800.00	
Yes	No	Yes	No	Yes	No

Kindly submit your registration form to gerda@skillspro.co.za.

Coding and Robotics Level 1 Training Layout as follows:

Unplugged CAPS/CLUB version GR R - 3	
Coding and Robotics CAPS Curriculum What is coding and Robotics Specific Aims and Skills Computational Thinking Design Thinking Outline of Grade R – 3 Approach to teaching Coding and Robotics Integration into other Subjects Content Offline and Online System Unplugged Projects Practicals	Introduction to ScratchJr Install ScratchJr Start ScratchJr ScratchJr Interface Part 1 Quiz Practical Project 1 ScratchJr Interface Part 2 Quiz Practical Project 2 Interaction of Characters ScratchJr Editor Practical Project 3 Intro to Scratch Demo of Grade 1 - 3 Robo Kits

Coding and Robotics Level 2 Training Layout as follows:

GR 4 - 6	
Coding: Introduction to Scratch Install Scratch Scratch Interface Scratch Blocks Save a Project Open a Project Scratch Editor Practical Project 1 ○ Motion and direction ○ Homework Practical Project 2 ○ Add Pen Block Extension ○ Write code with Pen Block Practical Project 3 ○ Variables	Robotics: What is Robotics Arduino nano MBlock Program Arduino with MBlock Connect Arduino Nano Projects: ○ Output LED ○ RGB LED ○ LED and Buzzer Demo Grade 3 – 6 Robotics Kits FreeCAD Computer Aided Design Introduction to FreeCAD (What is FreeCAD) Why use FreeCAD Work benches Create new drawing How to save FreeCAD Interesting facts before we start with 2D Dimension tools ○ Project 1 ○ Project 2 ○ 3D design.

Coding and Robotics Level 3 Training Layout as follows:

GR 4 - 6	
Coding: Flowcharts Symbols in Flowcharts Text based Coding Introduction to Python Install Python Working with Python Command Prompt Python Terminal Python IDLE Shell First Program ○ Project 1 ○ Project 2	Robotics: What is Robotics Arduino nano MBlock Program Arduino with MBlock Connect Arduino Nano Projects: ○ Output LED ○ RGB LED ○ LED and Buzzer What is HTML Elements and Tags Lists and Images Project 1 The <head> element Attributes Formatting Tags

*** All unplugged projects and Robo-kits per grade can be bought directly from Futurekids (Orderform attached).

*** Receive SACE Accredited Certification after receipt of successful Summative Assessment Project.