

## **INVITATION TO ATTEND PHP PROGRAMMING LANGUAGE COURSE (THE CODING FOR ADULTS):**

**Dear sir/madam,**

We are excited to invite you to our Coding for Adults: PHP Programming Language course, specifically designed for adults who want to master the art of web development using PHP. PHP is one of the most widely used server-side programming languages for web development, powering millions of websites worldwide. Whether you're looking to start a career in web development, enhance your coding skills, or build your own web projects, this course is tailored to give you hands-on experience with PHP programming.

### **Course Overview:**

PHP (Hypertext Preprocessor) is a powerful scripting language used to create dynamic and interactive websites. This course is designed for adults who have little or no prior experience with programming but are eager to learn PHP in a practical and engaging way. Participants will learn how to write clean, efficient code, build web applications, and understand the backend functionalities that power modern websites. With a focus on real-world applications, this course will empower you to create dynamic websites, interact with databases, and build scalable web projects.

### **Objectives:**

By the end of this course, participants will:

- Understand the basics of PHP and server-side programming.
- Build dynamic websites that can interact with databases.
- Learn to implement form handling, user authentication, and data validation using PHP.
- Develop a solid understanding of PHP syntax, loops, functions, and arrays.
- Gain the skills to integrate PHP with HTML, CSS, and JavaScript to build full-stack web applications.

### **Training Outcomes:**

Participants will acquire:

- Proficiency in PHP programming and its core functionalities.
- The ability to build dynamic, data-driven websites and applications.
- Practical skills in working with databases using MySQL and PHP.
- Confidence in writing reusable and maintainable PHP code.
- A solid foundation for further learning in web development or software engineering.

### **Course Content:**

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The course will cover the following key topics:

### **1. Introduction to PHP:**

- Overview of server-side programming and web development.
- Setting up the development environment: installing PHP, MySQL, and Apache.
- Understanding PHP syntax and basic structure: variables, data types, and operators.
- Writing your first PHP script and embedding PHP in HTML.

### **2. Control Structures and Loops:**

- Working with conditional statements: if, else, elseif.
- Using loops to automate repetitive tasks: for, while, do-while loops.
- Understanding switch statements for multi-conditional logic.

### **3. Working with Forms and User Input:**

- Creating HTML forms and handling form data in PHP.
- Using the \$\_POST and \$\_GET superglobals to collect user input.
- Validating and sanitizing user input to ensure security and data integrity.
- Building a simple contact form with PHP validation.

### **4. Functions, Arrays, and File Handling:**

- Defining and using PHP functions for code reusability.
- Understanding arrays and how to manipulate data within them.
- Working with file operations: reading from and writing to files in PHP.
- Building a dynamic website that reads data from external files.

### **5. Introduction to MySQL and PHP:**

- Introduction to databases and the role of MySQL in web development.>
- Connecting PHP to a MySQL database using PDO and MySQLi.
- Writing SQL queries to create, read, update, and delete data (CRUD operations).
- Displaying data from a MySQL database on a PHP-driven webpage.

### **6. Session Management and Cookies:**

- Understanding sessions and cookies in PHP.
- Implementing user authentication using sessions (login/logout functionality).
- Storing and retrieving data using cookies for personalized user experiences.

### **7. Building Dynamic Web Applications:**

- Combining PHP, HTML, CSS, and JavaScript to build interactive websites.
- Creating a simple content management system (CMS) using PHP and MySQL.
- Handling file uploads and managing user-generated content.

### **8. PHP Security Best Practices:**

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- Preventing common security vulnerabilities such as SQL injection and XSS attacks.
  - Implementing secure data handling, encryption, and password hashing.
  - Writing secure PHP code and protecting user data.

## **9. Project:**

- Participants will develop a fully functional PHP-based web application that includes form handling, user authentication, and database interaction. The project will apply all the concepts learned throughout the course

## **Who Should Attend:**

This course is ideal for:

- Adults looking to start a career in web development
- Individuals who want to learn PHP to build their own web applications.
- Professionals aiming to expand their coding skills for more advanced web development tasks.
- Anyone interested in backend development using PHP and MySQL.

## **Fees and Payment Method:**

**TZS 200,000/= per person per Month** (Physical or Online Session). Payments can be made through bank deposit to the following details:

**A/C NAME: STEP AHEAD FINANCIAL CONS**

**BANK NAME: CRDB BANK**

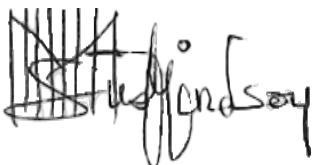
**ACCOUNT NUMBER: 015C448187900**

## **Confirmation:**

To confirm your attendance or for any inquiries, please call +255 713 388 317 or email us at [info@safco.co.tz](mailto:info@safco.co.tz).

We look forward to your participation in this insightful seminar, which promises to enhance your knowledge and skills in this fields. Your presence will undoubtedly contribute to the success of this event.

Sincerely,



Yustino Nyendeza

Step Ahead Financial Consultants Limited (SAFCO)

Training Director

