

# Skilled Computer Training Center

**Full course outline:** Approved on Tuesday, June 09, 2009

**Course title:** Web programming languages and Networking

**Course duration:** 6 months

**Delivery type:** On centre

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## DESCRIPTION

This course will provide an introduction to web programming language and networking. It will cover ASP.NET, HTML, DHTML, SQL SERVER, PHP, and networking with setting up LAN, WAN and WLAN. In particular, it will provide an understanding to develop web and database application using Microsoft's ASP.NET, SQL, PHP, and HTML in terms of practical lab. It will also cover network design (LAN and WLAN) and configuration using CISCO technology.

## LEARNING OUTCOMES

On completion of this course, students should:

1. Get familiar with ASP.NET, HTML, DHTML, SQL SERVER, and PHP.
2. Get familiar with web and database application.
3. Have knowledge of development of static and dynamic web site.
4. Get familiar with advanced ASP.NET page development, application and working with ADO.NET.
5. Have knowledge to build ASP.NET web services and custom ASP.NET control.
6. Be able to Install MY SQL with designing database, tables and indexes.
7. Get familiar with Inserting, deleting and updating data, and querying SQL server.
8. Have knowledge of configuration, administration and replication of database, back up and disaster recovery, optimizing database.
9. Get familiar with advanced PHP techniques: web based database administration and working with images.
10. Design, implementation and configuration of LAN and WLAN.
11. Get familiar with LAN segmentation, network protocols, addressing and naming.

## UNIT CONTENT

1. Introduction to web programming languages.
2. Web development: ASP.NET web programming framework with syntax, architecture and features of ASP.NET.
3. The web development process: analysis of problem, design, implementation and testing.
4. Server development: use of SQL to design, create and administer database.
5. Web design: analysis and development of static and dynamic web site.
6. Setting up a PHP-MY SQL development environment.
7. Setting up network: knowledge of Cisco technology to design, configure and implement LAN, Wireless and WAN.
8. Networking protocols: TCP/IP, RIP, ARP and IGRP

## TEACHING AND LEARNING PROCESSES

Knowledge and skills will be developed by a combination of lecture-based material, practical workshop and group discussion. The web programming language will be used to illustrate lecture material and to complete workshop tasks.

## TRAINEE ATTRIBUTES

The following attributes will be developed in this course:

- Ability to communicate
- Ability to work in teams
- Ability to understand business and web requirements

## ASSESSMENT

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| 1. Analysis of web requirements and professional design      | 50% |
| 2. Design topology with configuration and setting up network | 50% |

**TRAINER**

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**DISCLAIMER**

Students, please note that this course outline may be updated immediately prior to the beginning of the course.