



Real Time College

Course: Web Foundations \ Web Services

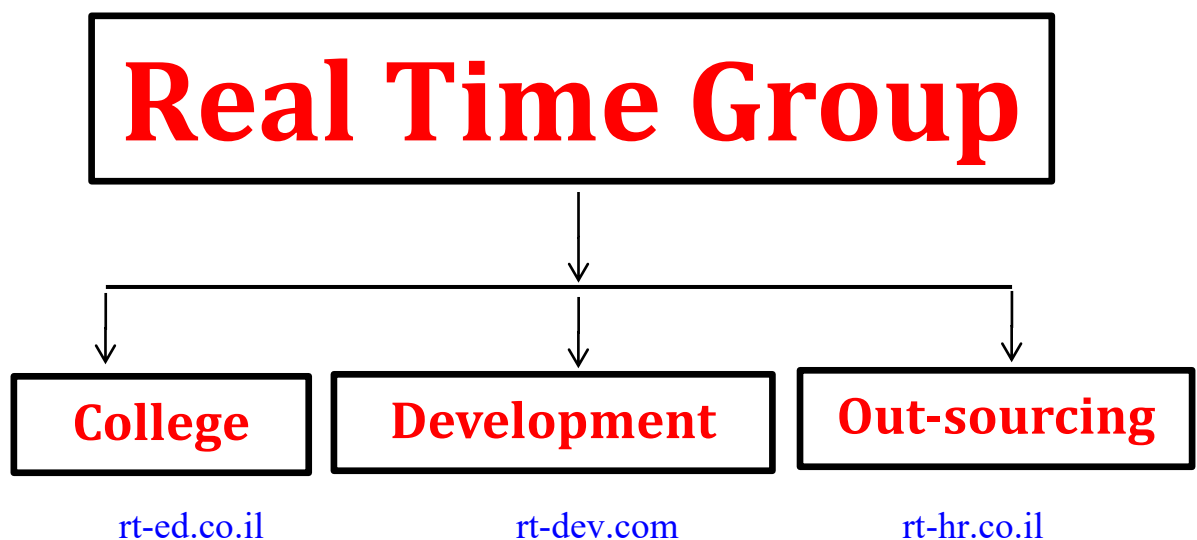
Duration: 35 Hours

Hands-On-Training: 50%

Real Time Group is a multi-disciplinary dynamic and innovative Real-Time O.S. and Embedded Software Solutions Center, established in 2007.

Providing Bare-Metal and Embedded Linux solutions, professional services and consulting, end-to-end flexible system infrastructure, outsourcing, integration and training services for Hardware, Software and RT-OS \ Embedded Systems.

The company is divided into the following three Divisions:



Training Division:

Professional Training Services for Hardware, Software, RT-OS and Embedded systems industries.

We provide the knowledge and experience needed to enable professional engineers to Develop, Integrate and QA Hardware, Software and Networking Projects.

In order to insure experience, all courses are practical – hands-on-training. The latest Development, QA and Automation equipment which are adopted by the industry are used.

All students are supplied with Development-Boards for home-work and course projects.

Course Overview:

Expertise in web standards and website technology can help beginners and developers reliable, efficient and maintainable websites. Learn HTML, responsive design, how to manage hosted websites, and more.

If you're starting from scratch, web development can be tricky - we'll give you enough details to make you feel comfortable and learn the topics well.

We will help you get the necessary skills, put together projects for your resume and get a decent job in the company you are interested in.

In the first block of the lectures you will already write your first website on it - using HTML, CSS and Bootstrap

The first part - **Web Foundations \ Web Services** course is needed in order to "immerse" students in the subject of web development and allow them to further concentrate on specific technologies without losing sight of the general architecture.

It is not theoretical course! - From the first steps, students work on real cloud Linux servers, gets experience with real client-server applications, using a set of modern open source tools

Who should attend:

- Beginners and developers who would like to know how create provide interaction web applications

Prerequisite:

- Basic knowledge of programming and design



Web Foundations \ Web Services

1. Web Basics

- What is Website
- What is Web Server
- What is Web browser
- Web protocols

2. Web Networking Basics

- TCP/IP
- IP address
- Domain Name
- Ports
- HTTP
- HTTPS & SSL certification
- Firewall

3. HTTP protocol

- HTTP protocol
- HTTP message
- HTTP methods
- HTTP status codes
- JSON format



4. Linux Servers Basics

- File names
- File path
- Command line interpreters
- Commands to create copy and remove files and directories
- File editor (nano...)
- SSH - Secure Shell
- File transfer commands and third party open source software