MAGNA SKILLS DEVELOPMENT INSTITUTE

Capacity Building • Professional Training • Organisational Development

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Course Profile Document

ICT and Security Management

Advanced Web Developer Course: Beginner to Advanced

Prepared as a professional course profile for delegate review, sponsorship approval and organisational training planning.

COURSE CODE	DELIVERY	DURATION	PREPARED FOR
MSD2843	**Online / Face-to-Face**	**Flexible**	**Organisation Approval**

Register for this Course

View Online Course Page

Course Overview

The Advanced Web Developer Course offered by Magna Skills is a comprehensive training program designed to take participants from beginner to advanced levels in web development. This course covers a wide range of topics, including HTML, CSS, JavaScript, front-end and back-end development, database integration, and advanced web technologies. Participants will gain hands-on experience and practical skills to design, develop, and deploy complex web applications.

Course Outcomes

1. **Mastering Fundamentals:** Gain a deep understanding of HTML, CSS, and JavaScript fundamentals to build static web pages and interactive user interfaces.
2. **Front-End Development:** Learn advanced techniques for front-end development, including responsive design, CSS preprocessors, and JavaScript frameworks like React.js.
3. **Back-End Development:** Explore back-end development concepts using popular server-side technologies such as Node.js, Express.js, and database integration with MongoDB or SQL.
4.

Full-Stack Development: Develop skills to build full-stack web applications, integrating front-end and back-end components to create dynamic and interactive websites.

5. **Advanced Web Technologies:** Dive into advanced web technologies such as RESTful APIs, authentication and authorization, web security, and performance optimization techniques.

Course Outline / Curriculum

Module 1: Introduction to Web Development

- Overview of web development technologies and tools
- Setting up development environment and version control

Module 2: HTML and CSS Fundamentals

- Understanding HTML5 structure and semantics
- Styling web pages with CSS3, including layout techniques and responsive design

Module 3: JavaScript Essentials

- JavaScript syntax, data types, and control flow
- DOM manipulation and event handling

Module 4: Front-End Development with React.js

- Introduction to React.js and component-based architecture
- State management with React hooks and context API

Module 5: Advanced CSS Techniques

- CSS preprocessors (e.g., Sass) and CSS frameworks (e.g., Bootstrap)
- CSS animations and transitions

Module 6: Back-End Development with Node.js and Express.js

- Introduction to Node.js and asynchronous JavaScript
- Building RESTful APIs with Express.js

Module 7: Database Integration

- Integrating databases with Node.js applications (MongoDB or SQL)
- CRUD operations and data modeling

Module 8: Authentication and Authorization

- Implementing user authentication and authorization mechanisms
- Using JWT (JSON Web Tokens) for token-based authentication

Module 9: Web Security and Performance Optimization

- Best practices for web security (e.g., HTTPS, input validation)
- Performance optimization techniques (e.g., code minification, lazy loading)

Module 10: Deployment and Project Showcase

- Deployment strategies for web applications (e.g., Heroku, AWS)
- Showcase of projects developed during the course

The Advanced Web Developer Course: Beginner to Advanced is designed to provide participants with a comprehensive understanding of web development concepts and technologies, from beginner to advanced levels. Through a combination of theoretical lessons, hands-on projects, and real-world applications, participants will gain the skills and confidence needed to excel as web developers in today's dynamic digital landscape.

Target Audience

Microsoft Windows

Key Course Benefits

Work-Ready Skills

Delegates leave with practical tools, templates and methods they can apply immediately at work.

Better Institutional Results

The programme supports stronger planning, reporting, compliance, accountability and service delivery.

Sponsor-Friendly

This document is designed to help supervisors, HR units and sponsors approve delegate participation quickly.

Professional Recognition

Delegates receive training documentation and a certificate of completion after successful participation.

Our Training Centres & Delivery Options

Magna Skills offers flexible delivery through face-to-face training centres across Africa and beyond, plus Online / E-Learning for delegates who prefer remote participation.

Southern Africa

Practical training destinations with strong travel access and delegate support.

- Pretoria, South Africa
- Vic Falls, Zimbabwe
- Livingstone, Zambia

East Africa

Popular regional centres for government, NGO and donor-funded project teams.

- Kigali, Rwanda
- Kampala, Uganda
- Nairobi,
- Zanzibar, Tanzania

West Africa & Islands

Strategic locations for regional networking and executive capacity building.

- Accra, Ghana
- Port Louis, Mauritius

International Executive Venue

Premium destination training for senior teams and international delegates.

- Dubai, United Arab Emirates

Online / E-Learning

Attend from anywhere through live online, blended or self-paced learning options.

- Online, E-Learning
- Remote Teams
- Flex

Organisation-Based Training

Magna Skills can also arrange dedicated in-house training for ministries, NGOs and companies.

- Onsite
- Custom Dates
- Group Training

Ready to Nominate Delegates?

Use the links below to register, review the live course page or contact Magna Skills for organisation-based training support.

Register / Apply Online | **View Full Course Page**

About Magna Skills

Magna Skills Development Institute provides practical capacity building programmes for government departments, NGOs, public institutions, donor-funded projects and private sector professionals across Africa. Our training approach combines expert facilitation, real workplace case studies, practical tools, post-training support and professional documentation that helps organisations strengthen staff performance and service delivery.

Government Training | NGO Capacity Building | Corporate Workshops | Online Learning | Face-to-Face Training | Certifica

Approval & Authorisation Form

This section may be completed by the organisation, department, HR office, finance office or sponsor approving delegate participation. It can be attached to an internal memo, procurement request or training approval submission.

Organisation / Department	
Delegate Name(s)	
Approved Course	Advanced Web Developer Course: Beginner to Advanced
Preferred Delivery Mode	☐ Online ☐ Face-to-Face ☐ Organisation-Based Training
Preferred Training Venue / Date	
Estimated Number of Delegates	
Budget / Vote Number	
Contact Person	
Email / Mobile	

Authorised Name _____ Signature / Stamp _____ Date _____