MAGNA SKILLS DEVELOPMENT INSTITUTE

Capacity Building • Professional Training • Organisational Development

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Course Profile Document

ICT and Security Management

Software Development & Management

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

COURSE CODE	DELIVERY	DURATION	PREPARED FOR
MSD2640	**Online / Face-to-Face**	**Flexible**	**Organisation Approval**

Register for this Course

View Online Course Page

Course Overview

The Software Development & Management course offered by Magna Skills is designed to equip participants with the knowledge and skills necessary to oversee and manage software development projects effectively. This course covers key concepts, methodologies, and best practices in software development and project management, providing participants with the tools needed to lead successful software projects from inception to completion.

Course Outcomes

1. **Understanding Software Development Lifecycle:** Gain an understanding of the software development lifecycle (SDLC) and various methodologies such as Agile, Scrum, and Waterfall, to effectively manage software projects.
2. **Requirements Gathering and Analysis:** Learn techniques for gathering and analyzing requirements from stakeholders, translating business needs into technical specifications, and managing project scope.
3. **Project Planning and Scheduling:** Develop skills in project planning, scheduling, and resource allocation, including estimating project timelines, budgeting, and risk management.
4.

Team Collaboration and Communication: Understand the importance of effective team collaboration and communication in software development projects, including facilitating meetings, resolving conflicts, and fostering teamwork.

5. **Quality Assurance and Testing:** Explore quality assurance (QA) processes, testing methodologies, and tools for ensuring the quality and reliability of software products.

Course Outline / Curriculum

Module 1: Introduction to Software Development

- Overview of software development lifecycle (SDLC)
- Introduction to software development methodologies (e.g., Agile, Waterfall)

Module 2: Requirements Gathering and Analysis

- Techniques for gathering and documenting requirements
- Analyzing and prioritizing requirements with stakeholders

Module 3: Project Planning and Scheduling

- Creating project plans and schedules
- Resource allocation, budgeting, and risk management

Module 4: Agile Software Development

- Principles and practices of Agile methodology
- Scrum framework and Agile project management tools

Module 5: Team Collaboration and Communication

- Effective communication strategies for software teams
- Facilitating meetings, resolving conflicts, and fostering teamwork

Module 6: Software Design and Architecture

- Principles of software design and architecture
- Design patterns, architectural styles, and modeling techniques

Module 7: Development and Implementation

- Coding standards and best practices
- Version control, continuous integration, and deployment strategies

Module 8: Quality Assurance and Testing

- Software testing fundamentals
- Test-driven development (TDD) and automated testing

Module 9: Project Monitoring and Control

- Monitoring project progress and performance
- Change management and adaptation to project changes

Module 10: Project Closure and Lessons Learned

- Closing out software projects and delivering products to stakeholders
- Conducting project post-mortems and capturing lessons learned

The Software Development & Management course provides participants with the knowledge and skills required to effectively manage software development projects from inception to delivery. Through a combination of theoretical learning, practical exercises, case studies, and discussions, participants will develop a comprehensive understanding of software development methodologies, project management techniques, and best practices in software project management, enabling them to lead successful software projects in various organizational settings

Target Audience

This course is designed for people who are responsible for specifying, acquiring, developing, evaluating, supporting and/or managing software-intensive systems, for example: Software Development Team Leaders; Software Engineers; Programmers; System Engineers; Project Managers of Software-Intensive Projects; Verification & Validation Managers; Configuration Managers; System Safety Managers; Software Maintainers; Software Procurement Managers

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	Software Development & Management
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 _____