Introduction

IT project management presents unique challenges due to the fast-evolving nature of technology and the complexity of user requirements. Traditional **predictive project management** methodologies, such as the **Waterfall** approach, have been effective in some cases, but may not always meet the diverse demands of modern IT projects. As technology becomes more complex and stakeholder needs evolve, **agile project management** approaches are increasingly proving to be more effective in delivering successful IT projects.

This **Information Technology Project Management** course focuses on equipping IT professionals with the knowledge and skills needed to manage IT projects successfully. Whether aiming to become an **IT Project Manager** or seeking to enhance existing skills, this course offers the tools necessary to lead IT projects effectively.

Targeted Groups

This course is designed for:

- **IT Directors** considering digital transformation strategies.
- **IT Project Managers** aiming to refine their project management skills.
- **Business Analysts**, **Programmers**, and **Quality Assurance Specialists** involved in IT projects.
- **Stakeholders** who influence IT project outcomes.

Course Objectives

By the end of this course, participants will be able to:

- Understand when to apply different project lifecycles (predictive or agile) to IT projects.
- Facilitate effective collaboration in IT projects.
- Perform core practices from both predictive and agile IT management approaches.
- Identify and address common challenges in IT project management.
- Control project progress and effectively report project status.

Targeted Competencies

Upon completing this course, participants will have developed competencies in:

- **Predictive IT Project Management** using the **Waterfall** approach.
- Understanding the **roles and responsibilities** of an IT project manager.
- Mastering core project management practices such as **scoping**, **scheduling**, and **budgeting**.
- Managing **project quality**, **change**, **risk**, **communications**, and **stakeholders**.
- Managing all phases of the IT project lifecycle: **initiation**, **planning**,

execution, **control**, and **closure**.

Course Content

Unit 1: Nature of IT Projects

- **Characteristics of projects** and key IT project considerations.
- The **IT project lifecycle** and its core phases.
- Establishing the **project charter** during the initiation phase.

Unit 2: Scope – IT Requirements

- **Requirements Engineering**: Elicitation, documentation, and management.
- Identifying and managing **stakeholders**.
- The roles of **Product Manager**, **Product Owner**, and **Business Analyst** in IT projects.
- Managing **emergent requirements** and quality factors in requirements engineering.

Unit 3: Detailed Planning

- **Software Engineering Methods** and best practices for planning.
- Creating a **Work Breakdown Structure** (WBS) and **project schedule**.
- IT **Quality Management**: planning, executing, and controlling quality.
- Developing a **Quality Assurance Plan (QA plan)**.

Unit 4: Managing Project Execution

- Understanding and managing **IT project costs**.
- **Team management** and addressing **uncertainty** and **risks**.
- Using **Waterfall** for predictive project management and **Agile** for adaptive project management.
- Introduction to **Agile Software Development** values, principles, and practices such as **SCRUM**.

Unit 5: Controlling and Closing IT Projects

- Preparing **progress reports** using traditional and **Earned Value Management** (EVM) techniques.
- **Scrum Reviews** and **continuous improvement** through **Lessons Learned** and **Retrospectives**.
- Measuring **project success** using tools like the **requirements traceability matrix**.

Conclusion

This **IT Project Management** course provides professionals with a comprehensive understanding of the **IT Project Manager** role and the methodologies used to ensure successful project delivery. Throughout the course, participants will develop essential skills in communication, risk management, stakeholder engagement, and the application of project management tools.

By completing this course, individuals will be well-prepared to pursue **IT**

Project Manager certification, validating their expertise in managing complex IT projects. The knowledge gained will empower them to navigate IT project lifecycles with agility, contributing to successful technology initiatives and organizational growth in a fast-paced, technology-driven world.