



مركز التنمية العالمي  
International Development Center

**Curriculum of  
Professional Diploma Technology  
In  
Project Management**

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## Table of Contents

Theme	Page
Cover	1
Table of Contents	2
Part I. General Scientific introduction	3
Part II. The Technical Academic Program	4
Chapter One : Introduction in Project Management	4
Chapter Two : Progressive concepts in Project Management	4
Chapter Three : Study of the most significant Software applications	6
Chapter Four : Study of important International certificates in P.M	7
Chapter Five : Practical applying	8
Part III. Table detail hours of the contents of the diploma	9
Part IV. Academic and Technical References	10

## **Part I. General Scientific introduction :**

The contents of this Program will be presented in the form of a training course. These courses will provide an integrated, theoretical, practical and technical approach that includes a summary of past experiences in this field and unique additions.

### **1. General Aims:**

- Provide an integrated and effective content for the students so that they will be fully qualified in the field of managing medium and large projects.
- Linking between the theoretical side, practical and technical aspects.
- Contributing the improvement and development the environment of project management in Sudan.
- Giving the students the Performing opportunity through an integrated training program.

### **2. Educational Methods:**

- Theoretical lectures by means of advanced educational methods (smart Screens, tablets, projector, etc.).
- Technical training on the most important Software applications in project management (computer lab).
- Practical Training in supervising projects in a specific period of time (existing projects).

### **3. Exposed in the Program:**

- The owners or the engineering officials (government agencies), consultants, engineers, contractors and all those involved in project management.
- Engineers from all specialties and all who has a relationship with project management.
- Candidates for the PMP exam.
- Each has a desire to progress in project management science and to increase his knowledge.

### **4. Program specification:**

- A certified diploma from the American University of London in project management documented by the Department of Higher Education in France.
- An integrated learning center, an ideal learning environment and teachers with a high degree of proficiency and experience.
- A certificate approved by the International Development center.
- A certified certificate in the presence of 36 preparatory hours for the PMP and PRINCE.
- Provide a training opportunity (one of the major projects) for each student in the program.
- Obtaining a summary of important information in project management in a short period of Time.

## Part II. The Technical Academic Program

### Chapter One: Introduction in Project Management (5 Hours)

#### **1. Project definition:**

A group of time-constrained activities in which certain resources are used, funds are spent for benefits in order to provide a product or service to achieve intentional change.

#### **2. Project Viewing**

And based on determining the following factors: the time of completion the project , budget allocated to him , the goal you want to achieve.

#### **3. Concept of Project management**

Detailed description of the planning, guidance, organization, implementation and control of various resources; with a view to achieving certain objectives within a specified time period).

#### **4. Importance of Project Management**

## **Chapter Two: Progressive concepts in Project Management (15 Hours) :**

### **1. Project Management Fields:**

The following points and details are explained by focusing on the most important points (Project Integration Management / Project Scope Management / Project Time Management / Project Cost Management / Project Quality Management / Project Human Resources Management / Communication Management / Project Risk Management / Supply Management Project).

### **2. The stages of the project:**

(Project feasibility study / project planning / resource allocation / project implementation / monitoring / project evaluation).

### **3. Project Management Success Factors:**

Identify the most important factors (predefined goals / realization that the project is not a routine work / determine the total costs of the project / provide a specialized technical team / set a specific date to finish the project / focus on the project owner's expectations / create creative touches / success factors).

### **4. Project Manager Skills:**

Organizational Skills / Problem Solving Skills / Communication Skills / Leadership Skills and Dealing with Others.

### **5. Project scheduling methods:**

#### **a. CPM method:**

Benefits: (obtain project planning representation / forecast time to finish project / distinguish between critical and non-critical tasks in project).

#### **Steps to apply the critical path method are summarized in the following**

(Knowledge of all activities collected by the project / knowledge of the relationships between these tasks / assignment of tasks on the network plan / estimate of the time required to complete each task separately / identify the critical path from the network diagram / update the network diagram periodically during project implementation).

#### **b. PERT method:**

The Pert method essentially depends on estimating of three times for each process: (pessimistic estimate / optimistic estimate / most likely estimate).

- The previous three estimates are random variables that are subjected to a specific probability distribution ,calculation the average of these times, assuming that the best probability distribution curve for representing these scenarios is the beta curve.

#### **Importance of CPM and PERT:**

(Assisting the project manager in identifying critical activities / calculating the flexibility of non-critical activities to provide opportunities for the transfer of resources to critical activities / identifying the early and late times of project completion / calculating the final cost of the project).

## **Chapter Three: Study of the most significant Software applications (24 Hours)**

### **1. MS project (8 Hours)**

A program for project planning issued by Microsoft, for the first time in 1987 and rolled the issues until it reached the issue of 2016.

#### **Program property:**

( Drawing up the work plan and representing it on the Network Diagram and Gantt Diagram / allocating and organizing the resources for each activity / monitoring project progress / managing the project budget and analyzing the workload).

#### **Contents of the practical training on MS Project**

( Project creation / tasks and activities in the project / resources and costs / monitoring and tracking project implementation / printing and reports).

### **2. Primavera (16 Hours)**

Features of the program (provides integrated reports and the most detailed details about the project / Allows to know where to go resources used in the project / Demonstrates the lack of resources / Helps to complete projects on time / Integrated with e-mail sites and mobile phones / The program has a simple interface and attractive and easy to use).

#### **Contents of the practical training on Primavera:**

( Management of Cost, Resource and Expenditure / Project Tools and Advanced Activity Update / Project Reports / Primavera Management).

## **Chapter Four: Study of important International certificates in P.M (48 Hours)**

### **1. Project in controlled environment (Prince2) (12 Hours)**

Founded in 1989 by the UK Office of Government Commerce (OGC), IT was developed to include all projects in various fields in 1996 and two of them were developed in 2009 and 2017. Axelos is responsible in dealing with the masses in exams and diplomas. The Prince2 method focuses on the steps in the project to reach the goal and to explain the steps that are supposed to be done and why they do not give answers on how to perform this step. Prince2 Certificate in Project Management is awarded in three main areas: (Prince Foundation /Prince Practitioner degree / Professional degree).

### **2. Project Management Professional (PMP) (36 Hours)**

PMP is the most prestigious certificate awarded by PMI, accredited by ISO and ANSI, where the applicant is accredited after working hours (at least 4500 working hours in project management), and then tested using an exam in 6 aspects of project management : Initiation , Planning , Executing , Controlling , Closing , Professional responsibility.

#### **Characteristics of Holding PMP Certificate:**

(The most prestigious and respected certificates and the first in the world in this field / gain the holder of the addition of quality in science and management experience / enhance the chances of success in the management of projects / have a very wide demand currently in various countries of the Middle East and the Arab Gulf / the holder gets functional features such as promotions, bonuses and rewards Faster than others / a basic requirement for some functions in many foundations / can sit for the exam three times within one year from the moment of acceptance of the request from the Project Management Center and the second and third attempt is calculated at half the cost price).

#### **Requirements of Obtaining PMP certificate**

The conditions one of the two groups must be submitted:

1. Holds an intermediate qualification (general secondary certificate or the equivalent of international certificates).
2. Experience 7500 hours working in project management and guidance.
3. 35 training hours in project management.

or

1. High qualification (Bachelor).
2. 4500 working hours experience in project management and guidance.
3. 35 training hours in project management.

#### **Preparation Material of PMP**

1. Guide to the Project Management Body of Knowledge (PMBOK® Guide)
2. PMP Exam Content Outline.
3. PMP Sample Questions.

### **Chapter Five: Practical Applying (24 Hours)**

The aim of this course is to build an integrated knowledge form between the theoretical and technical aspects and to link them to the practical reality in the project management so that the trainee will have a complete and coherent conception of all aspects of project management. The recipient will learn about the problems or difficulties encountered in managing the projects and how to deal with them and take the appropriate decisions to solve the problems and download theories management in practice, the recipient will be on a degree of qualification that qualifies him to start his work in the management of projects once the completion of the course.

Duration of this practical training is 3 days full-time (8 working hours).

Will teach the theoretical section of this chapter many of the project management experts, owners of practical experience is very long, which will be a summary of good solutions to the problems that will face the recipients in the practical work and the formation of the mentality to find the right solution, consideration of all sides and contain problems, also will add his expertise, Experiences and enticement in the teaching of this part, provided that the practical aspect in the participation of the participants on the projects and the practice the management and training in practice.





**Part III. Table detail hours of the contents of the diploma**

Theme		No. days	No. Hours
Theoretical Section		5	20
Software Applications in Project Management	MS Project	2	8
	Primavera	4	16
International Certificates In P.M	Prince2	3	12
	PMP	9	36
Practical Section		3	24
The Total time of collect the diploma Certificate from the University after exam		26	116

#### Part IV: Academic and Technical References

1. Construction Project Management by S. Keoki Sears (Author), Glenn A. Sears (Author), Richard H. Clough (Author)
2. Construction Project Manager's Pocket Book 1st Edition.
3. Guide to the Project Management Body of Knowledge (PMBOK® Guide).
4. Primavera® P6™ Project Management Reference Manual.
5. <https://blog.teamweek.com/2018/10/the-11-best-project-management-certifications-2019/>
6. <https://axelos.com/certifications/prince2>

### Project Management

Professional Diploma in Project Management provides an integrated, theoretical, practical and technical approach that includes a summary of past experiences in this field and unique additions. This diploma Linking between the theoretical side, practical and technical aspects, Contributing the improvement and development the environment of project management in Sudan, Giving the students the Performing opportunity through an integrated training program, Obtaining a summary of important information in project management in a short period of Time.

This diploma is characterized by providing the subscriber with a certified certificate in the presence of 36 preparatory hours for the PMP and PRINCE and providing a training opportunity (one of the major projects) for each student in the program.

### Course Routes Offered

Qualification	Route
DBA	BY DIRECTED COURSEWORK STUDY / RESEARCH & DISSERTATION
PhD	BY RESEARCH & DISSERTATION
BBA	BY DIRECTED COURSEWORK STUDY

### Course Modules

Module Code	Module Title
PM1	Introduction in Project Management
PM21	Project Management Field
PM22	The stages of the project
PM23	Project scheduling methods
PM31	P.M Software – Ms Project
PM32	P.M Software – Primavera
PM41	PMP Certificate
PM42	Prince2 Certificate