

Recognised for Continuing Professional Development (CPD) by SAAMA in accordance with ECSA guidelines



Effective
Human
Intervention
LEADERS IN TRAINING

PROJECT MANAGEMENT IN THE DIGITAL AGE

Projects have evolved rapidly over the past 10 years. There are excellent software tools available including MS Projects, Primavera and new AI assisted tools which are elaborated upon in this 5-day course. There are also 50 Project Management Professional Exam questions included. Some traditional project management processes will remain as they are and is done step by step.

EHI has been Accredited by MERSETA Accreditation No: 17-QA/ACC/0603/23 | BBBEE LEVEL 2 STATUS

Effective Human Intervention (Pty) Ltd | 11 Hodgson Street, Vergesig, Durbanville, 7550, Western Cape | Tel: +27 21 979 5891 | Reg No: 2017/350228/07
Directors: Carel David Kruger | Deshun Bester | Justice Ngwenya | Contact: callie@ehiafrica.co.za | Website: www.ehiafrica.co.za

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Project Management in the Digital Age

Course Objectives:

- Understand the evolution of project management in the digital age.
- Explore the role of AI and technology tools in project management.
- Analyze case studies across various industries to grasp practical applications of project management principles.
- Develop an understanding of how utilizing AI tools for project management are used in different sectors.
- Acquire knowledge and skills in traditional project management processes and interpersonal skills essential for project managers.
- Gain insight into stakeholder management and the factors contributing to project success.
- Familiarize oneself with the 10 knowledge areas of project management and risk assessment techniques.
- Learn project scope management, lifecycle phases, and time management strategies.
- Understand project quality management, cost estimation, and people management in projects.
- Master project risk management, procurement, change management, and financial management.
- Explore legal issues, project close-out methods, and project costing strategies.
- Develop proficiency in project scheduling, resource management, and contract evaluations.

About the Facilitator

Gert Oberholster has many years of experience in different aspects of Production, Projects, Logistics; Maintenance and Quality Management while being employed by various organisations. He has 12 years' experience in university lecturing; facilitation; assessments; moderations; training; education and basic auditing. Gert presents for a very wide audience ranging from entry level to graduates.

He has done courses in all major areas in South Africa, Swaziland, Lesotho; Namibia; Botswana, Mozambique, Zambia, Tanzania, Mali, Ghana, Ivory Coast; Togo; Eritria and United Arab Emirates (UAE).

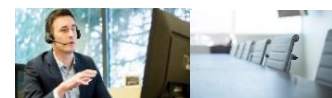
Gert holds a degree in Project Management, and supporting qualifications in Production, Quality; Logistics and HR. He is the author of many training manuals and unique tools using experience and teamwork with other professionals. Gert has experience in the Toyota Production System (TPS); Value Stream Mapping (VSM); Kaizen and Lean Manufacturing. He has developed user friendly tools while working with Volkswagen; Mercedes; BMW; Nampak; Toyota and more.

Course Outcomes:

- Participants will be equipped with knowledge and practical skills to effectively manage projects in the digital age.
- Participants will gain familiarity with a variety of AI tools and software used in project management across industries.
- Participants will understand project lifecycle phases and be able to apply appropriate management techniques.
- Participants will develop critical thinking and problem-solving skills through case studies and exercises.
- Participants will be able to identify and mitigate project risks effectively.
- Participants will learn financial management techniques specific to project environments.
- Participants will enhance their interpersonal and communication skills necessary for effective project management.
- Participants will be prepared to tackle Project Management Professional (PMP) exam questions.

BENEFITS

- ✓ Participation in an interactive workshop
- ✓ Learn from a recognised expert with cross industry experience
- ✓ Comprehensive course documentation
- ✓ Immediate implementation in the workplace
- ✓ Accredited to gain 5 CPD points by SAAMA



Customised Virtual Training and/or In-house Training

If you wish to organize a Virtual Instructor Led Training session or In-House session for your organization, we will custom design a session that will help you achieve your desired learning goal. The main advantage of custom designed VILT, in addition to being significantly cost effective, is that they address topics specifically related to the needs of your organization. **To discuss the possibility of designing and conducting such a session or In-House training session, contact us on 021 979 5891 or callie@ehiafrica.co.za for a comprehensive quotation.**

Project Management in the Digital Age

DAY 1:

- What is PM?
- The top 10 current AI tools in PM
- A detailed example of a mining project case study
- Technology and transformation projects
- Top 10 AI tools in digital transformation projects
- Municipality water upgrade projects example and case study.
- Sustainable and renewable energy projects case study
- The top 5 AI tools used in sustainable energy projects
- Infrastructure and construction projects
- Top 10 AI tools used in infrastructure and construction projects
- Healthcare and life sciences projects and top 10 AI tools used
- E-COMMERCE and retail projects case study including the top 10 AI tools used
- Why use project management
- Examples of types of project management
- The traditional elements of project management
- Interpersonal skills of a Project Manager
- The roles and responsibilities of a project manager
- What is a stakeholder and stakeholder practical activity
- What is it that makes a project successful?
- The 10 knowledge areas of project management
- Intensive look into project management risk

10 x PMP Exam Questions

DAY 2:

- Project scope management
- Write a short summary of a project scope
- Project lifecycle and phases
- Context diagrams
- Work Breakdown Structure with practical activity
- Project Time Management - all the types of time management tools used in industry 4.0
- Precedence Diagrams and Leads and Lags
- Types of graphs used in project management, for example Gantt and Milestone Schedules
- Standard Scheduling notations used in project management (ES, EF, LS, LF, Float)
- The critical path and the critical path method (CPM).
- Project Quality Management and cost of quality.
- People management in projects
- RAM model and exercise
- Communications management and practical activity

DAY 3

- Project Risk Management and exercise
- Failure Mode and Effect Analysis
- Fault Tree Analysis
- Prator, Fishbone Scatter Diagram
- Project Management Procurement
- Change Management and Change Control
- Project Management Finance (AV, EV, PV, SPI, EVM, CPI)
- Financial Management Performance Metrics (BAC, ETC, Budgeting, Forecasting)

DAY 4:

- The 7 quality tools intense exercises
- Legal issues in projects (Force Major, Warranty, Breach, Waiver)
- Project close out methods and procedures.
- Project Cost Management
- Project Lifecycle Costing
- Factors that may affect project costing.
- Type of costs – direct versus indirect, fixed, overheads, how to estimate costs.
- The difference between costing, estimating and pricing.
- Project budgeting A-Z
- Project funding and reverse analysis

DAY 5

- Project scheduling & crashing a project.
- Resource scheduling and leveling
- Time Quality Cost Scope trade off
- The project management plan
- Contract evaluations and tenders
- Cost Control Formulas
- 25 PMP exam questions

The course is divided into 40% slides, 40% activities and 20% videos. The method is interactive and offers group learning.