COURSE OVERVIEW PM0639
Project Management for Engineering & Construction

Course Title
Project Management for Engineering & Construction

Course Date/Venue
Session 1: May 03-07, 2026/Tamra Meeting Room, Al Bandar Rotana Creek, Dubai, UAE or Online Virtual Training
Session 2: November 08-12, 2026/Tamra Meeting Room, Al Bandar Rotana Creek, Dubai, UAE or Online Virtual Training

Course Reference
PM0639

Course Duration/Credits
Five days/3.0 CEUs/30 PDHs

Course Description

This practical and highly-interactive course includes various practical sessions and exercises. Theory learnt will be applied using our state-of-the-art simulators.

This course is designed to provide participants with a detailed and up-to-date overview of Project Management for Engineering & Construction. It covers the engineering and construction projects, concept selection and front-end loading (FEL) including project governance stakeholder alignment; the project management processes and frameworks, scope definition, work breakdown structures (WBS), project management tools and digital platforms; the project planning and development of execution strategy, engineering design workflow management and scheduling time management; the cost estimating and budget development, risk identification and mitigation during planning; the facility layout and design for constructability, procurement strategy and planning; the contracting strategies in oil and gas projects, tendering and bid evaluation and vendor and supplier relationship management; and the material management and quality control.

During this interactive course, participants will learn the procurement risks and mitigation, construction planning, workforce management, construction site management and execution; the safety and risk management (HSE), quality assurance and quality control in construction; the mechanical completion and pre-commissioning, commissioning and start up management; the project controls fundamentals, managing projects interfaces and multidisciplinary teams; the performance monitoring and reporting and leadership skills for engineering and construction managers; and managing issues, claims and disputes.

Course Objectives

Upon the successful completion of this course, each participant will be able to:-

- Apply and gain an in-depth knowledge on project management for engineering and construction
- Discuss engineering and construction projects, concept selection and front-end loading (FEL) including project governance stakeholder alignment
- Recognize project management processes and frameworks, scope definition, work breakdown structures (WBS), project management tools and digital platforms
- Carryout project planning and development of execution strategy, engineering design workflow management and scheduling time management
- Apply cost estimating and budget development, risk identification and mitigation during planning
- Illustrate facility layout and design for constructability, procurement strategy and planning as well as contracting strategies in oil and gas projects
- Employ tendering and bid evaluation, vendor and supplier relationship management and material management and quality control
- Apply procurement risks and mitigation, construction planning, workforce management and construction site management and execution
- Implement safety and risk management (HSE), quality assurance and quality control in construction, mechanical completion and pre-commissioning
- Employ commissioning and start up management and discuss project controls fundamentals, managing projects interfaces and multidisciplinary teams
- Carryout performance monitoring and reporting, leadership skills for engineering and construction managers and managing issues, claims and disputes

Exclusive Smart Training Kit - H-STK®

*Participants of this course will receive the exclusive "Haward Smart Training Kit" (**H-STK®**). The **H-STK®** consists of a comprehensive set of technical content which includes **electronic version** of the course materials conveniently saved in a **Tablet PC**.*

Who Should Attend

This course provides an overview of all significant aspects and considerations of project management for engineering and construction for project managers, engineering and construction managers, site managers and supervisors, planning and scheduling engineers, cost engineers/project controls specialists, procurement and contract managers, project engineers and team leaders and those who involved in the planning, execution, and management of engineering and construction projects.

Virtual Training (If Applicable)

If this course is delivered online as a Virtual Training, the following limitations will be applicable:-

Certificates	Only soft copy certificates will be issued to participants through Haward's Portal. This includes Wallet Card Certificates if applicable
Training Materials	Only soft copy Training Materials (PDF format) will be issued to participant through the Virtual Training Platform
Training Methodology	80% of the program will be theory and 20% will be practical sessions, exercises, case studies, simulators or videos
Training Program	The training will be for 4 hours per day starting at 0930 and ending at 1330
H-STK Smart Training Kit	Not Applicable
Hands-on Practical Workshops	Not Applicable
Site Visit	Not Applicable
Simulators	Only software simulators will be used in the virtual courses. Hardware simulators are not applicable and will not be used in Virtual Training

Training Methodology

All our Courses are including **Hands-on Practical Sessions** using equipment, State-of-the-Art Simulators, Drawings, Case Studies, Videos and Exercises. The courses include the following training methodologies as a percentage of the total tuition hours:-

30% Lectures
20% Practical Workshops & Work Presentations
30% Hands-on Practical Exercises & Case Studies
20% Simulators (Hardware & Software) & Videos

In an unlikely event, the course instructor may modify the above training methodology before or during the course for technical reasons.

Course Fee

F2F Classroom: **US$ 5,500** per Delegate + **VAT**. This rate includes H-STK® (Haward Smart Training Kit), buffet lunch, coffee/tea on arrival, morning & afternoon of each day.
Online Virtual: **US$ 2,750** per Delegate + **VAT**.

Accommodation

Accommodation is not included in the course fees. However, any accommodation required can be arranged at the time of booking.

Course Certificate(s)

Internationally recognized certificates will be issued to all participants of the course who completed a minimum of 80% of the total tuition hours.

Certificate Accreditations

Haward's certificates are accredited by the following international accreditation organizations: -

- British Accreditation Council (BAC)

  Haward Technology is accredited by the **British Accreditation Council** for **Independent Further and Higher Education** as an **International Centre**. Haward's certificates are internationally recognized and accredited by the British Accreditation Council (BAC). BAC is the British accrediting body responsible for setting standards within independent further and higher education sector in the UK and overseas. As a BAC-accredited international centre, Haward Technology meets all of the international higher education criteria and standards set by BAC.

- The International Accreditors for Continuing Education and Training (IACET - USA)

  Haward Technology is an Authorized Training Provider by the International Accreditors for Continuing Education and Training (IACET), 2201 Cooperative Way, Suite 600, Herndon, VA 20171, USA. In obtaining this authority, Haward Technology has demonstrated that it complies with the **ANSI/IACET 2018-1 Standard** which is widely recognized as the standard of good practice internationally. As a result of our Authorized Provider membership status, Haward Technology is authorized to offer IACET CEUs for its programs that qualify under the **ANSI/IACET 2018-1 Standard**.

  Haward Technology's courses meet the professional certification and continuing education requirements for participants seeking **Continuing Education Units** (CEUs) in accordance with the rules & regulations of the International Accreditors for Continuing Education & Training (IACET). IACET is an international authority that evaluates programs according to strict, research-based criteria and guidelines. The CEU is an internationally accepted uniform unit of measurement in qualified courses of continuing education.

  Haward Technology Middle East will award **3.0 CEUs** (Continuing Education Units) or **30 PDHs** (Professional Development Hours) for participants who completed the total tuition hours of this program. One CEU is equivalent to ten Professional Development Hours (PDHs) or ten contact hours of the participation in and completion of Haward Technology programs. A permanent record of a participant's involvement and awarding of CEU will be maintained by Haward Technology. Haward Technology will provide a copy of the participant's CEU and PDH Transcript of Records upon request.

Course Instructor(s)

This course will be conducted by the following instructor(s). However, we have the right to change the course instructor(s) prior to the course date and inform participants accordingly:

Mr. Dimitry Rovas, CEng, MSc, PMI-PMP, SMRP-CMRP is a **Senior Project Management Consultant** with extensive industrial experience in **Oil**, **Gas**, **Power** and **Utilities** industries. His expertise includes **Project** Management, **Construction** Management, **Project** Management Planning & Control Techniques, **Project Risk** Management, **Project Budgeting** & **Cost** Management, **Project & Construction** Management, **Contract & Risk** Management, Project Leadership, Communication & Negotiation, **Project** Management Essentials, Writing Scope of Works, **Quality** Management, **Project Acceleration** Techniques, **Scope Control** Management, **Contract** Management, **Asset** Management, **Procurement & Purchasing** Management, **Warehousing**, Quality Management System (**QMS**), **Business** Management, **Project & Contracts** Management Skills, **Project & Construction** Management, **Project** Planning, Scheduling & Control, **Project** Management, Project Delivery & Governance Framework, **Project** Management Practices, **Project** Management Disciplines, **Project Risk** Management, **Risk** Identification Tools & Techniques, **Project** Life Cycle, **Project Stakeholder** & Governance, **Project Management** Processes, **Project Integration** Management, **Project** Management Plan, **Project Work** Monitoring & Control, **Project Scope** Management, **Project Time** Management, **Project Cost** Management, **Project Quality** Management, **Quality** Assurance, **Project Human Resource** Management, **Project Communications** Management, **Contract** Management, **Tender** Development, **Contract** Standards & Laws and **Dispute Resolution** & **Risk** Identification. Further, he is also well-versed in **Energy Conservation**, **Electricity Distribution Systems**, **Energy Saving**, **Combined Cycle Power Plant**, **Gas & Steam Turbines**, **Heat Transfer**, **Machine Design**, **Fluid Mechanics**, **Heating & Cooling** Systems, **Heat Insulation** Systems and **Heat Exchanger & Cooling Towers**. He was the **Project Manager** wherein he was managing, directing and controlling all activities and functions associated with the domestic heating/cooling facilities projects.

During his life career, Mr. Rovas has gained his practical and field experience through his various significant positions and dedication as the **EPC Project Manager**, **Field Engineer**, **Preventive Maintenance Engineer**, **Researcher**, **Instructor/Trainer**, **Telecom Consultant** and **Consultant** from various companies such as the Podaras Engineering Studies, Metka and Diadikasia, S.A., **Hellenic Petroleum Oil Refinery** and COSMOTE.

Mr. Rovas is a **Chartered Engineer** of the **Technical Chamber** of **Greece**. Further, he has **Master's** degree in **Mechanical Engineering** and **Energy Production & Management** from the **National Technical University of Athens**. Moreover, he is a **Certified Instructor/Trainer**, a **Certified Maintenance and Reliability Professional** (**CMRP**) from the Society of Maintenance & Reliability Professionals (**SMRP**), a **Certified Project Management Professional** (**PMP**), a **Certified Internal Verifier/Assessor/Trainer** by the **Institute of Leadership & Management** (**ILM**) and a **Certified Six Sigma Black Belt**. He is an active member of Project Management Institute (**PMI**), Technical Chamber of Greece and Body of Certified Energy Auditors and has further delivered numerous trainings, seminars, courses, workshops and conferences internationally.

Course Program

The following program is planned for this course. However, the course instructor(s) may modify this program before or during the workshop for technical reasons with no prior notice to participants. Nevertheless, the course objectives will always be met:

Day 1

0730 – 0800	*Registration & Coffee*
0800 – 0815	*Welcome & Introduction*
0815 – 0830	***PRE-TEST***
0830 – 0930	***Overview of Engineering & Construction Projects*** *Types of Engineering and Construction Projects (EPC, EPCC, EPCM, LSTK) • Life Cycle Phases in Engineering and Construction Projects • Differences Between Industrial vs Commercial Construction • Key Challenges in Surface Petroleum Facility Projects*
0930 – 0945	*Break*
0945 – 1030	***Concept Selection & Front-End Loading (FEL)*** *FEL-1 / FEL-2 / FEL-3 Breakdown • Screening Alternatives & Concept Evaluation • Decision Criteria: Technical, Economic, Environmental • Concept Selection Decision Support Packages (DSPs)*
1030 – 1130	***Project Governance & Stakeholder Alignment*** *Governance Structures in Oil & Gas Project Organizations • Project Steering Committees & Decision Gates • Internal/External Stakeholder Mapping • Communication and Engagement Strategies*
1130 – 1215	***Project Management Processes & Frameworks*** *PMI, AACE, API RP 750, and Oil & Gas Project Frameworks • Project Integration Management • Stage-Gate Methodology for Petroleum Projects • Interfaces Between Engineering, Procurement, Construction, Commissioning*
1215 – 1230	*Break*
1230 – 1330	***Scope Definition & Work Breakdown Structures (WBS)*** *Scope Development and Scope Baseline • Creating a Petroleum Facilities WBS • Defining Work Packages for Engineering, Procurement, and Construction • Scope Verification and Change Control*
1330 – 1420	***Project Management Tools & Digital Platforms*** *Primavera P6, MS Project, SAP, ARCM, AVEVA, etc. • Digital Twins and 3D/4D Engineering Models • Document Control Systems (EDMS) • Collaboration Tools for Distributed Engineering Teams*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day One*

Day 2

0730 – 0830	***Project Planning & Development of Execution Strategy*** *Execution Strategy Components (EPC, Modularization, Fast-Tracking) • Interface Management • Contracting Strategy Selection • Risk-Based Execution Strategy*
0830 – 0930	***Engineering Design Workflow Management*** *Basic versus Detailed Engineering • Deliverables: PFD, P&ID, 3D Model, Datasheets, Layouts • Design Reviews: HAZOP, 3D Model Reviews, Constructability • Managing MTO, MR, and Engineering Change Notices*

0930 – 0945	*Break*
0945 – 1100	***Scheduling & Time Management*** *CPM, PDM, Gantt Charts, Resource-Loaded Schedules • Engineering Scheduling (Design Packages, Drawings, Reviews) • Construction Sequencing and Look-Ahead Planning • Schedule Risk Analysis (Monte Carlo, Criticality Index)*
1100 – 1215	***Cost Estimating & Budget Development*** *AACE Cost Estimate Classes (Class 1–5) • Estimating Engineering, Procurement, Construction Costs • CAPEX vs OPEX Evaluations • Cost Control, Trending, and Forecasting*
1215 – 1230	*Break*
1230 – 1330	***Risk Identification & Mitigation During Planning*** *Risk Workshops and Risk Typology (Technical, Commercial, HSE, Interface) • Qualitative and Quantitative Risk Analysis • Risk Registers and Treatment Plans • Early Warning Indicators (EWI)*
1330 – 1420	***Facility Layout & Design for Constructability*** *Plant Layout Fundamentals (Plot Plans, Equipment Zoning) • Access, Egress, and Spacing Requirements (API, NFPA) • Hazardous Area Classification • Constructability Considerations During Design*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Two*

Day 3

0730 – 0830	***Procurement Strategy & Planning*** *Long-Lead Items (LLI) Identification • Procurement Schedule Integration with Engineering • Vendor Prequalification & Evaluation • Technical vs Commercial Alignment*
0830 – 0930	***Contracting Strategies in Oil & Gas Projects*** *LSTK, EPC, EPCM, Reimbursable, Unit-Rate Contracts • Selecting the Right Type for Risk Allocation • Typical Contract Terms (LDs, Warranties, Indemnities) • Claims Avoidance and Dispute Resolution*
0930 – 0945	*Break*
0945 – 1100	***Tendering & Bid Evaluation*** *Preparing RFQ, ITB, and Tender Documents • Technical Bid Evaluation (TBE) • Commercial Bid Evaluation (CBE) • Award Strategy and Kick-Off Processes*
1100 – 1215	***Vendor & Supplier Relationship Management*** *Vendor Surveillance and Expediting • Managing FAT, SAT, QCP, ITP • Supplier Performance Monitoring • Managing Overseas Shipments and Logistics*
1215 – 1230	*Break*
1230 – 1330	***Material Management & Quality Control*** *MTO Management and Reconciliation • Warehouse Control and Preservation Requirements • Inspection, Test Plans, and QA/QC Documentation • Non-Conformance Reporting and Corrective Actions*

1330 – 1420	***Procurement Risks & Mitigation*** *LLI Delays and Fabrication Bottlenecks • International Logistics and Customs Issues • Supplier Insolvency or Capacity Constraints • Managing Inflation, Cost Escalation, and Exchange Rate Risk*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Three*

Day 4

0730 – 0830	***Construction Planning & Workface Management*** *Construction Work Packages (CWP) • Field Installation Work Packages (FIWP) • Labor, Equipment, and Resource Planning • Daily and Weekly Progress Reporting*
0830 – 0930	***Construction Site Management & Execution*** *Site Mobilization and Temporary Facilities • Workforce Management and Productivity Optimization • Lifting Plans and Heavy Equipment Coordination • Construction Sequencing and Tracking Progress (S-Curves)*
0930 – 0945	*Break*
0945 – 1100	***Safety & Risk Management (HSE)*** *Construction HSE Plan (HAZID/HAZAN) • SIMOPS Management in Live Petroleum Facilities • Permit to Work (PTW) and LOTO Systems • Emergency Response & Incident Management*
1100 – 1215	***Quality Assurance & Quality Control in Construction*** *Welding, NDT, Hydrotesting, Piping, Structural Steel QA/QC • Civil Works QA/QC (Foundations, Concrete, Rebar, Soil Tests) • Mechanical Completion Checklists • Managing NCRs and Punch Lists*
1215 – 1230	*Break*
1230 – 1330	***Mechanical Completion & Pre-Commissioning*** *System/Subsystem Definition • Walkdowns and Punch Categorization (A/B/C) • Flushing, Pres*
1330 – 1420	***Commissioning & Startup Management*** *Commissioning Plan and Execution • Energy Isolation, Energization, and Cold/Hot Commissioning • Performance Testing and Reliability Run • Handover to Operations and Project Closeout*
1420 – 1430	***Recap*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Topics that were Discussed Today and Advise Them of the Topics to be Discussed Tomorrow*
1430	*Lunch & End of Day Four*

Day 5

0730 – 0830	***Project Controls Fundamentals*** *Cost, Schedule, and Scope Control • Earned Value Management (EVM) • Productivity Measurement and Forecasting • Change Management and Trend Analysis*
0830 – 0930	***Managing Project Interfaces & Multidisciplinary Teams*** *Interface Points Between Engineering, Procurement, and Construction • Inter-Discipline Coordination (Process, Mechanical, Civil, Electrical, I&C) • Managing Contractors and Subcontractors • Best Practices for Coordination Meetings*

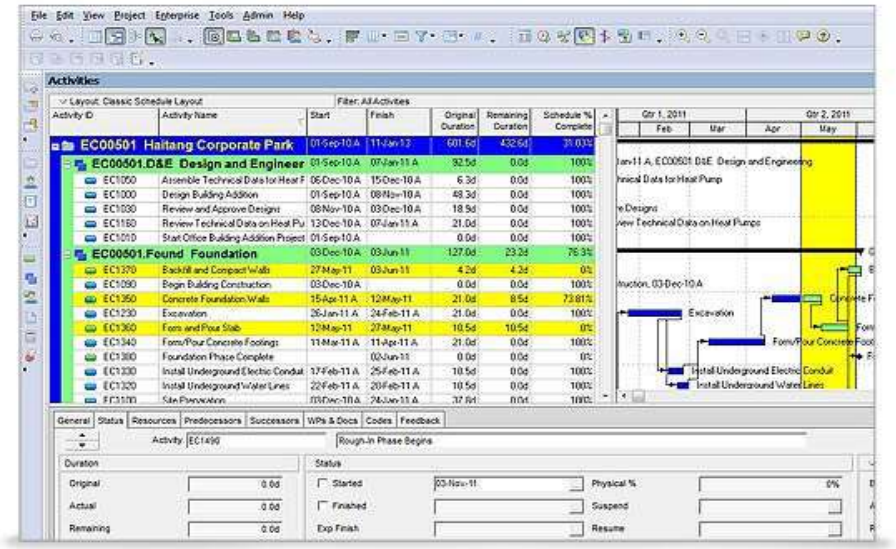
0930 – 0945	*Break*
0945 – 1100	***Performance Monitoring & Reporting*** *KPIs for Engineering & Construction Projects • Dashboards and Progress Visualization • Management of Change (MOC) Process • Reporting to Senior Management and Clients*
1100 – 1230	***Leadership Skills for Engineering & Construction Managers*** *Decision-Making in Complex Project Environments • Critical Thinking and Problem-Solving • Conflict Resolution and Negotiation • Emotional Intelligence in Multicultural Teams*
1230 – 1245	*Break*
1245 – 1315	***Managing Issues, Claims & Disputes*** *Common Project Claims (Delay, Disruption, Variation) • Root Cause Analysis for Construction Issues • Documentation for Claims Defense • Negotiation and Dispute Settlement Strategies*
1315 - 1345	***Project Closeout & Lessons Learned*** *Technical and Administrative Closeout • Final Inspections and Handover Documentation • As-Built Drawings & DCC Requirements • Capturing Lessons Learned for Future Improvements*
1345 – 1400	***Course Conclusion*** *Using this Course Overview, the Instructor(s) will Brief Participants about the Course Topics that were Covered During the Course*
1400 – 1415	***POST-TEST***
1415 – 1430	*Presentation of Course Certificates*
1430	*Lunch & End of Course*

Simulator (Hands-on Practical Sessions)

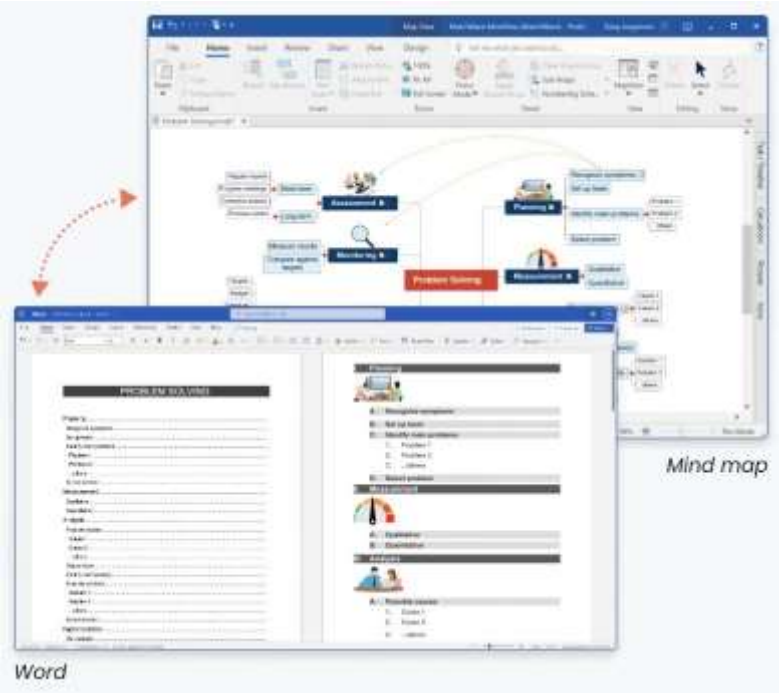
Practical sessions will be organized during the course for delegates to practice the theory learnt. Delegates will be provided with an opportunity to carryout various exercises using the "MS Project", "Mindview Software", "Primavera P6 Simulator", "Mindview Software" and "Raidlog Simulator".

Microsoft Office Project
Enterprise Project Management Solution

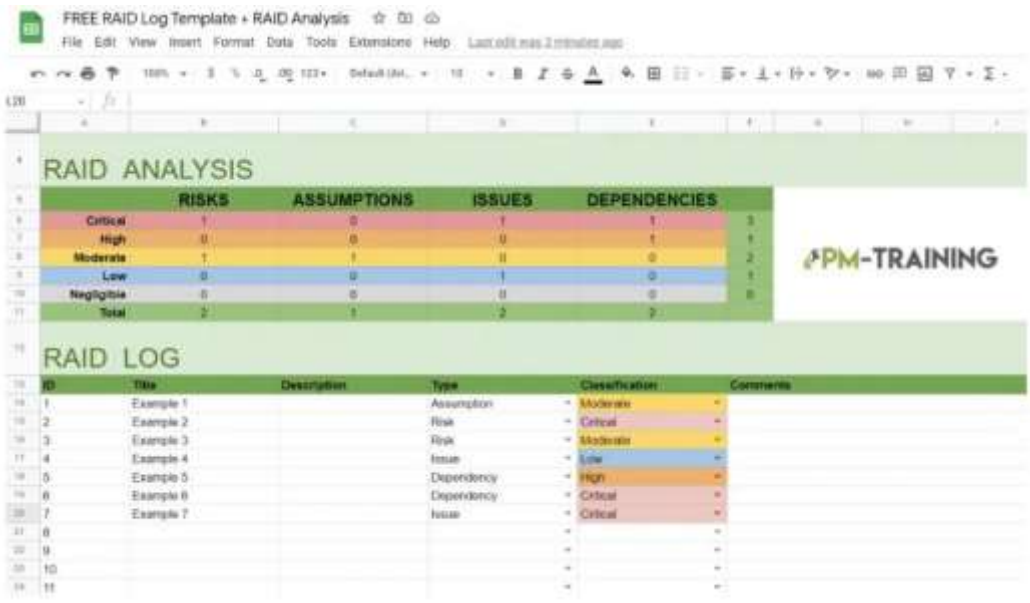
MS Project



Primavera P6



Mindview Software



Raidlog Simulator

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