



### **Phase 1: Foundational & Core Concepts**

(Months 1 & 2 - Online)









#### 盆 Deep Dive: Earned Value Management (EVM)

EVM is particularly useful in forecasting the cost and time of the project at completion, based on actual performance to date.

- Enhance project performance evaluation.
- Forecast accurate project duration.

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# Month 1: Principles, Planning & Scheduling (Online)









Week 1

Intro to Construction PM

Week 2

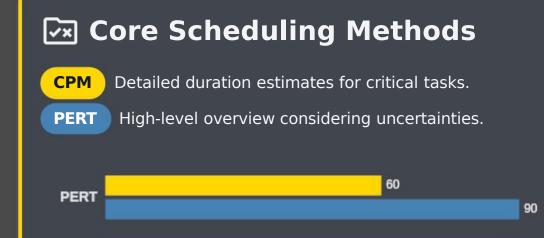
Project Planning & Scope

#### Week 3

Scheduling: CPM & PERT

#### Week 4

Advanced Scheduling



### **\*\*** Forecasting Performance

**EVM** Forecasts project cost and time at completion.

**ES** Transforms EVM into time-based metrics.

"EVM enhances evaluation of project schedule performance and aids in making evidence-based decisions."

— PMI: The earned schedule

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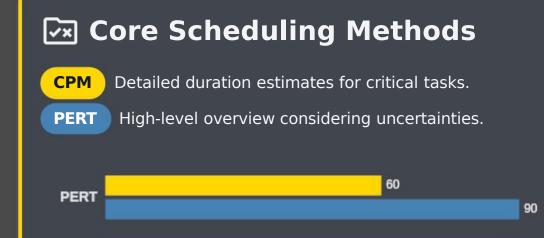
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### Month 2: Resource, Cost, Risk, Quality, Contracts & HSE

(Online)

#### Week 5



#### **Resource Allocation**

Optimizing team & material deployment.



#### **Cost Estimating**

Accurate initial project budgeting.

#### Week 6



#### **Cost Control**

Managing budget deviations.



#### **Earned Value Management**

Track project performance.

#### Week 7



#### **Risk Management**

Identify, assess, and mitigate threats.



#### **Quality Assurance**

Ensure project standards are met.

#### Week 8



#### **Contracts & Procurement**

Legal and acquisition processes.



#### **HSE Management**

Health, Safety, Environment protocols.



#### **Mini Project Scoping**

Applying learned skills for your Capstone project. Initiate planning.



#### **Unpacking Project Performance**

EVM: Value vs. Time



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# Phase 2: Industry Immersion & Integrated Project

(Month 3 - Offline)



#### **Intensive Concept Application**

Deep dive into real-world scenarios, applying theoretical knowledge to gain practical proficiency.



**Hands-On Learning** 

**Skill Development** 

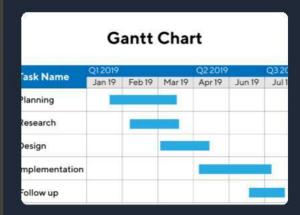


#### **Guided Real-World Simulation**

Directly engage with project

#### **Strategic Project Blueprinting**

- O Develop detailed project schedules.
- Formulate robust risk management plans.
- Integrate advanced planning techniques.





**Gantt Chart for Scheduling** 

**Risk Assessment Framework** 





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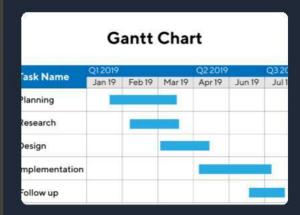


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# Month 3: Capstone Mini Project - Schedule & Risk Plan Development



Week 9

#### Project Initiation & Detailed Scheduling

Define scope & objectives. Craft detailed project schedules.

**CPM** Analysis

**Gantt Charts** 



Week 10

# Resource & Cost Planning

Allocate resources & estimate budgets. Systematically identify potential risks.

**EVM** Integration

Risk Registers



Week 11

# Risk Analysis & Reporting

Assess risk impact. Develop mitigation plans & generate reports.

Risk Matrix

**Progress Reports** 



Week 12

### Showcase & Career Launch

Present capstone findings. Prepare for professional career paths.

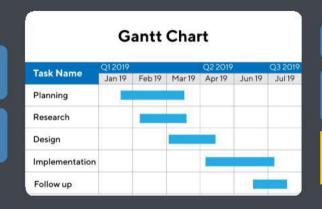
Presentation

Networking

#### Core Scheduling Methodologies

PERT: High-level overview of project milestones.

CPM: Detailed duration estimates for critical activities.



#### **Earned Value Management (EVM)**

EVM: Manages resources, schedules, costs, and requirements.

Earned Schedule (ES): Transforms EVM metrics for precise time forecasting.

"EVM is particularly useful in forecasting the cost and time of the project at completion."

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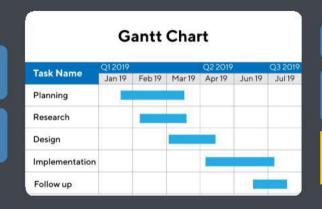
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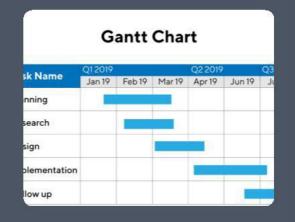
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# Capstone Mini Project Highlights



#### **Advanced Planning & CPM Scheduling**

- Detailed WBS Developed
- Activity Sequencing Mastered
- Preliminary CPM Schedule
   Created





#### **Strategic Resource & Budget Development**

- Optimized Resource Allocation
- Preliminary BudgetDeveloped
- Cost Controls Implemented



WBS

СРМ

Scheduling

Budgeting

Resources

Finance



**Proactive Risk Identification & Mitigation** 



**Hands-on Learning & Mentor Feedback** 

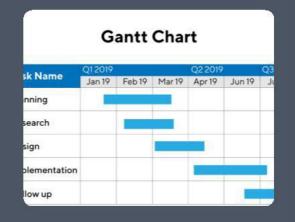
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# Career Launchpad & Graduation



#### **Final Project Showcase**

Justify design & project outcomes.

**Capstone Achievement** 



# Resume & Portfolio Mastery

Craft compelling professional materials.

**Industry-Ready Tools** 



# LinkedIn & Networking Edge

Build powerful industry connections.

**Strategic Engagement** 



# Interview Readiness Training

Practice technical & behavioral skills.

**Confidence Building** 



# **Professional Networking Sessions**

Direct interaction with industry experts.

**Career Connections** 



#### **Graduation & Certification**

Celebrate program completion & recognition.

**Earned Success** 



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