

# PRIMAVERA P6/ MS Project

## Planning & Scheduling Portfolio

Cost-loaded and resource-loaded schedules | UAE | Saudi Arabia | United States | United Kingdom

PREPARED BY

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Planning & Scheduling Engineer | Oracle Primavera P6 certified (Coursera / Packt)

SCHEDULING TOOLS

|                                                       |                                                             |
|-------------------------------------------------------|-------------------------------------------------------------|
| <b>Oracle Primavera P6</b><br>PROFESSIONAL SCHEDULING | <b>Microsoft Project</b><br>PROGRAMME AND RESOURCE PLANNING |
|-------------------------------------------------------|-------------------------------------------------------------|

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## Portfolio at a glance

| Project                                          | Location                | Activities | Duration  | Indicative budget |
|--------------------------------------------------|-------------------------|------------|-----------|-------------------|
| Dubai Exhibition Centre Expansion                | United Arab Emirates    | 81         | 5 months  | AED 3,900,000     |
| DAMAC Hills 2 Villas & Townhouses, MEP           | United Arab Emirates    | 252        | 25 months | AED 128,700,000   |
| Sales Center & Administrative Offices, Al-Khafji | Kingdom of Saudi Arabia | 31         | 4 months  | SAR 4,450,000     |
| SPCT Baltimore Master Schedule                   | United States           | 1,073      | 33 months | USD 145,000,000   |

*Budgets and resource figures in this portfolio are indicative and rounded. Client names and exact contract values are withheld for confidentiality.*

# 1. About Me & Certification

I am a Civil Engineer with over 2 years of experience in planning and scheduling. I build schedules that are linked to cost and resources, so a single programme answers three questions: when will the project finish, what will it cost, and which people and equipment are needed to get there.

My work spans construction, MEP, infrastructure and marine projects in the UAE, Saudi Arabia, the wider Gulf region, the United Kingdom and the United States. The four projects in this portfolio show the range: a masterplan programme, a large MEP baseline, a fast-track building programme and a multi-year master schedule.

## Profile

|                      |                                                                                                      |
|----------------------|------------------------------------------------------------------------------------------------------|
| <b>Focus</b>         | Baseline programmes, cost and resource loading, progress updates, delay analysis                     |
| <b>Software</b>      | Oracle Primavera P6 Professional, Microsoft Project, Microsoft Excel                                 |
| <b>Regions</b>       | UAE, Saudi Arabia, Gulf region, United Kingdom, United States                                        |
| <b>Sectors</b>       | Residential, commercial, hospitality, infrastructure, rail, marine                                   |
| <b>Working hours</b> | Pakistan Standard Time (UTC+05:00), overlapping Gulf hours with flexible cover for UK and US clients |

## Certification



*Planning & Control with Oracle Primavera PPM Professional – Coursera / Packt specialization, issued January 2025*

The specialization covers Primavera P6 project setup and basic management, advanced scheduling and project optimisation, and advanced resource and enterprise management.

## 2. Services & Capabilities

| Service                | What you receive                                                                                  |
|------------------------|---------------------------------------------------------------------------------------------------|
| Baseline programme     | Logic-driven CPM schedule with WBS, activity codes, calendars and constraints, ready for approval |
| Cost loading           | Budget cost by activity or resource, cost accounts, S-curve and monthly cash-flow forecast        |
| Resource loading       | Labour, equipment and material loaded; histograms; over-allocation resolved                       |
| Progress updates       | Weekly or monthly status, actual dates, remaining duration, variance and look-ahead               |
| Delay and EOT analysis | Time-impact and windows analysis with a clear written narrative                                   |
| Earned value reporting | PV, EV, AC, SPI and CPI reporting from P6 data                                                    |
| Schedule health check  | Review of logic, float, constraints and calendars with a findings report                          |
| Training and handover  | P6 setup, layouts, templates and team training                                                    |

### Technical capability

| Area           | Capability                                                                                                          |
|----------------|---------------------------------------------------------------------------------------------------------------------|
| Primavera P6   | EPS, OBS, WBS, activity codes, user-defined fields, global change, layouts, filters, reports, XER import and export |
| Scheduling     | CPM, relationships and lags, constraints, calendars, float and critical path, schedule compression                  |
| Cost           | Cost accounts, rate tables, budget versus actual, cash flow, S-curves                                               |
| Resources      | Resource breakdown structure, roles, levelling, histograms, resource curves                                         |
| Control        | Baselines, progress updates, earned value, look-ahead, variance reporting                                           |
| Claims support | Time-impact analysis, windows analysis, as-planned versus as-built                                                  |

### 3. Cost & Resource Loading Method

The same disciplined method is applied on every project in this portfolio.

#### Cost loading

- Set up a cost account structure aligned to the bill of quantities or contract breakdown.
- Load budget as resource-driven cost (rate × quantity) for labour and equipment, and as lump sums for procurement and subcontract packages.
- Select the correct percent-complete type (duration, physical or units) so earned value reflects how work is really measured.
- Lock the baseline before the first update and keep budget and at-completion cost consistent.
- Produce the cost S-curve and monthly cash flow from the resource usage profile.

#### Resource loading

- Build a resource breakdown structure covering roles, labour trades, equipment and material.
- Define unit prices, maximum units per time and resource calendars.
- Assign resources to activities with realistic units and driving-resource logic.
- Review the histogram for peaks and over-allocation, then level using float first and logic changes second.
- Record peak manpower, equipment counts and levelling assumptions.

#### Deliverables for each project

| No. | Deliverable                              | Format                  |
|-----|------------------------------------------|-------------------------|
| 1   | Programme narrative and assumptions      | PDF                     |
| 2   | Cost-loaded and resource-loaded schedule | XER and PDF Gantt chart |
| 3   | Resource histogram and cost S-curve      | PDF                     |
| 4   | Monthly cash-flow forecast               | Excel                   |
| 5   | Progress update and variance report      | PDF and Excel           |

# Project 1: Dubai Exhibition Centre Expansion (UAE)

Dubai, United Arab Emirates | Exhibition venue, masterplan and authority approvals

|                         |                             |                                      |                            |
|-------------------------|-----------------------------|--------------------------------------|----------------------------|
| <b>81</b><br>ACTIVITIES | <b>5 months</b><br>DURATION | <b>AED 3.9M</b><br>INDICATIVE BUDGET | <b>18</b><br>PEAK MANPOWER |
|-------------------------|-----------------------------|--------------------------------------|----------------------------|

|                      |                                               |
|----------------------|-----------------------------------------------|
| Primavera project ID | PN2406 (WBS root: PN2301 Expansion of DEC-R3) |
| Schedule type        | Masterplan programme, Rev 3                   |
| Programme dates      | 07 Apr 2025 – 12 Sep 2025                     |
| Client               | Confidential                                  |
| My role              | Planning & Scheduling Engineer                |

## Overview

Draft masterplan programme for the expansion of the Dubai Exhibition Centre. The schedule sequences the Employer's information handover, Masterplan Stage 1 design, Stage 1 authority approvals and Masterplan Stage 2, and is tracked through a weekly Employer update cycle. It was developed and issued through to Revision 3.

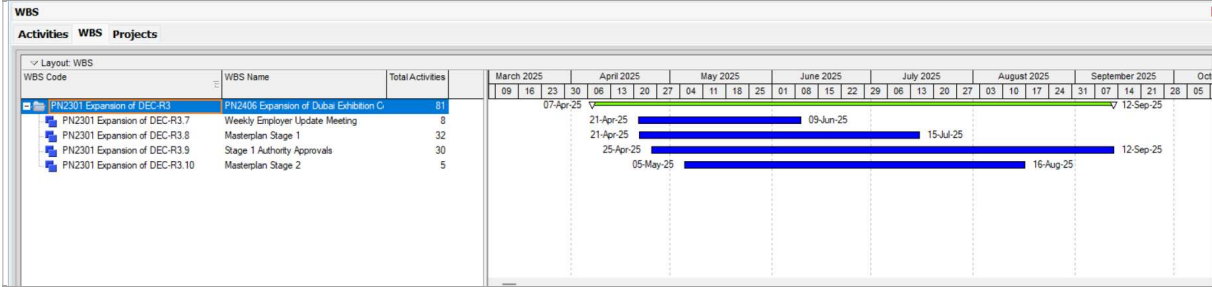
## Scope of my work

- Built the programme from appointment to Masterplan Stage 2, with assumed start-up dates flagged so actual dates could be agreed with the Employer.
- Structured the WBS by deliverable stage: weekly Employer updates, Masterplan Stage 1, Stage 1 authority approvals and Masterplan Stage 2.
- Managed programme revisions up to Rev 3 for Employer review.
- Cost-loaded the design effort by resource and cost account, and produced the S-curve and manpower histogram.

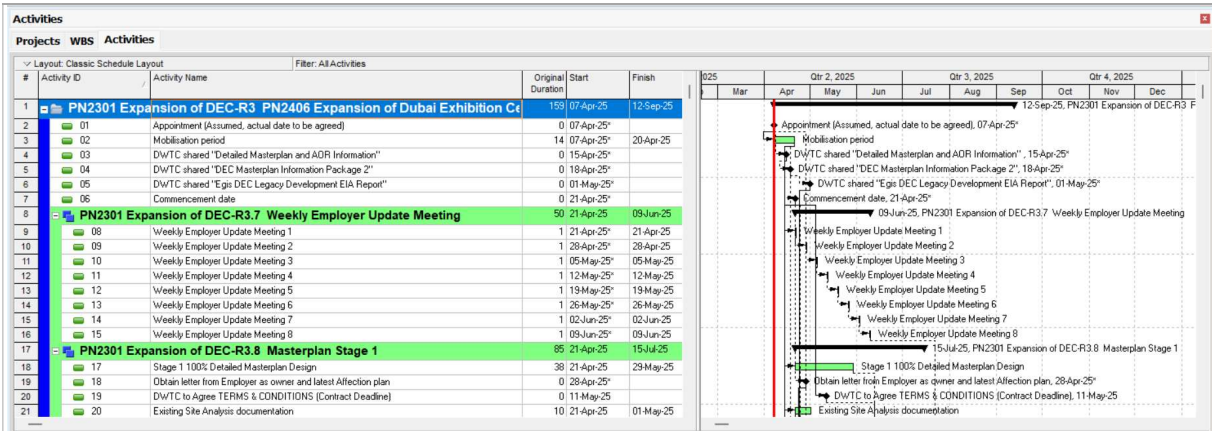
## Work breakdown structure

| WBS code | Description                                                      | Activities |
|----------|------------------------------------------------------------------|------------|
| R3.7     | Weekly Employer Update Meeting                                   | 8          |
| R3.8     | Masterplan Stage 1                                               | 32         |
| R3.9     | Stage 1 Authority Approvals                                      | 30         |
| R3.10    | Masterplan Stage 2                                               | 5          |
| —        | Start-up items (appointment, mobilisation, information handover) | 6          |
|          | <b>Total activities</b>                                          | <b>81</b>  |

## Schedule in Primavera P6



Work breakdown structure and Gantt chart



Activities, logic and Gantt chart

## Scheduling highlights

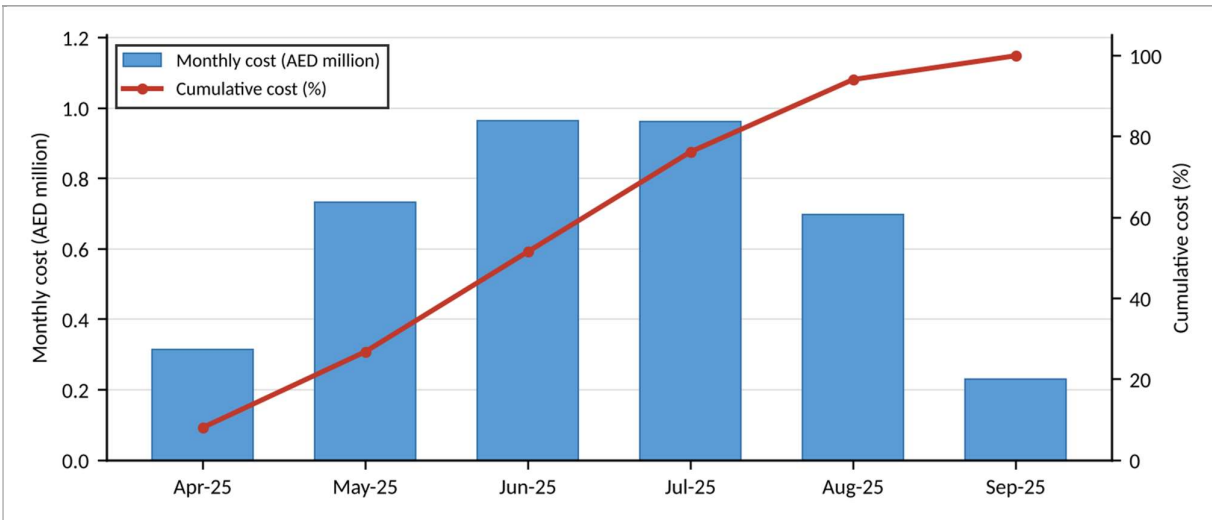
- Weekly Employer update meetings are modelled as eight recurring activities, so reporting dates are visible on the programme.
- The authority approval stage (30 activities) sits in its own WBS branch to isolate approval-driven float.
- Information handover items from the Employer are shown as dated milestones that drive Masterplan Stage 1.

## Cost loading

Budget at completion is AED 3,900,000, loaded by cost account. Labour and equipment cost is resource-driven; the lump-sum item is Sub-consultants, surveys & authority fees.

| Code                              | Cost account                            | Budget (AED)     | % total     | Loading method      |
|-----------------------------------|-----------------------------------------|------------------|-------------|---------------------|
| 01                                | Masterplan Stage 1 – design development | 1,482,000        | 38%         | Resource-driven     |
| 02                                | Stage 1 authority approvals             | 858,000          | 22%         | Resource + lump sum |
| 03                                | Masterplan Stage 2                      | 468,000          | 12%         | Resource-driven     |
| 04                                | Site analysis, surveys & studies        | 624,000          | 16%         | Lump sum            |
| 05                                | Project management & employer meetings  | 468,000          | 12%         | Resource-driven     |
| <b>Total budget at completion</b> |                                         | <b>3,900,000</b> | <b>100%</b> |                     |

## Cost S-curve



Monthly cost and cumulative cost (%), AED

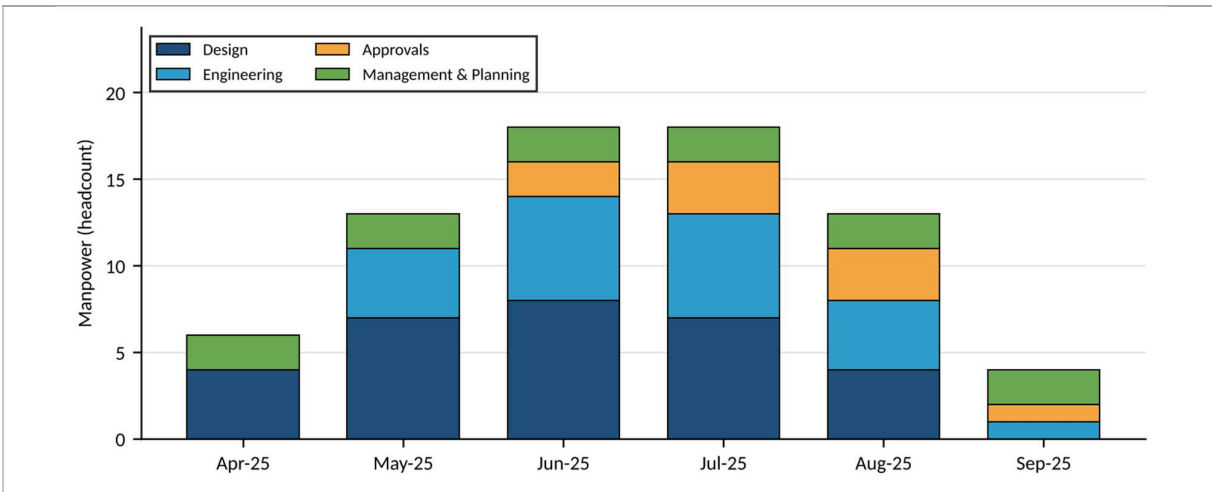
Peak monthly spend is AED 964,644 in Jun-25.

## Resource loading

Resources were assigned to activities with units and rates, then levelled to remove over-allocation. Rates are per day; peak units are headcount (or equipment count) in the busiest month.

| Resource                                  | Type     | Peak | Rate (AED/day) | Total days | Cost (AED)       | %             |
|-------------------------------------------|----------|------|----------------|------------|------------------|---------------|
| Project Director                          | Labour   | 1    | 3,400          | 132        | 448,800          | 11.5%         |
| Principal Architect / Master Planner      | Labour   | 2    | 2,600          | 176        | 457,600          | 11.7%         |
| Architects & Urban Designers              | Labour   | 6    | 1,350          | 484        | 653,400          | 16.8%         |
| Infrastructure & MEP Engineers            | Labour   | 4    | 1,550          | 330        | 511,500          | 13.1%         |
| Traffic & Transport Consultant            | Labour   | 2    | 1,900          | 132        | 250,800          | 6.4%          |
| Authority Approvals Engineers             | Labour   | 3    | 1,250          | 198        | 247,500          | 6.3%          |
| Planning Engineer                         | Labour   | 1    | 1,150          | 132        | 151,800          | 3.9%          |
| Sub-consultants, surveys & authority fees | Lump sum | –    | –              | –          | 1,178,600        | 30.2%         |
| <b>Total</b>                              |          |      |                |            | <b>3,900,000</b> | <b>100.0%</b> |

## Resource histogram



Design team manpower (headcount per month)

## Key results

- Peak manpower of 18 in Jun-25, with total labour effort of about 1,584 man-days.
- Budget at completion of AED 3,900,000 across 5 cost accounts.
- Equipment and procurement cost loaded alongside labour, so the S-curve reflects the full budget.

## Project 2: DAMAC Hills 2 Villas & Townhouses, MEP (UAE)

DAMAC Hills 2, Dubai, United Arab Emirates | Residential community: villas and townhouses (MEP scope)

|                          |                              |                                      |                             |
|--------------------------|------------------------------|--------------------------------------|-----------------------------|
| <b>252</b><br>ACTIVITIES | <b>25 months</b><br>DURATION | <b>AED 129M</b><br>INDICATIVE BUDGET | <b>365</b><br>PEAK MANPOWER |
|--------------------------|------------------------------|--------------------------------------|-----------------------------|

|                             |                                            |
|-----------------------------|--------------------------------------------|
| <b>Primavera project ID</b> | P106 (P106-439, BL R00)                    |
| <b>Schedule type</b>        | MEP standalone baseline programme (BL R00) |
| <b>Programme dates</b>      | 20 Dec 2023 – 09 Jan 2026                  |
| <b>Client</b>               | Confidential                               |
| <b>My role</b>              | Planning & Scheduling Engineer             |

### Overview

MEP-only baseline programme for a villa and townhouse community at DAMAC Hills 2. It covers shop-drawing submittals and approvals for mid-unit and end-unit house types, procurement, MEP installation, utility supply releases, testing and commissioning, and the building completion certificate.

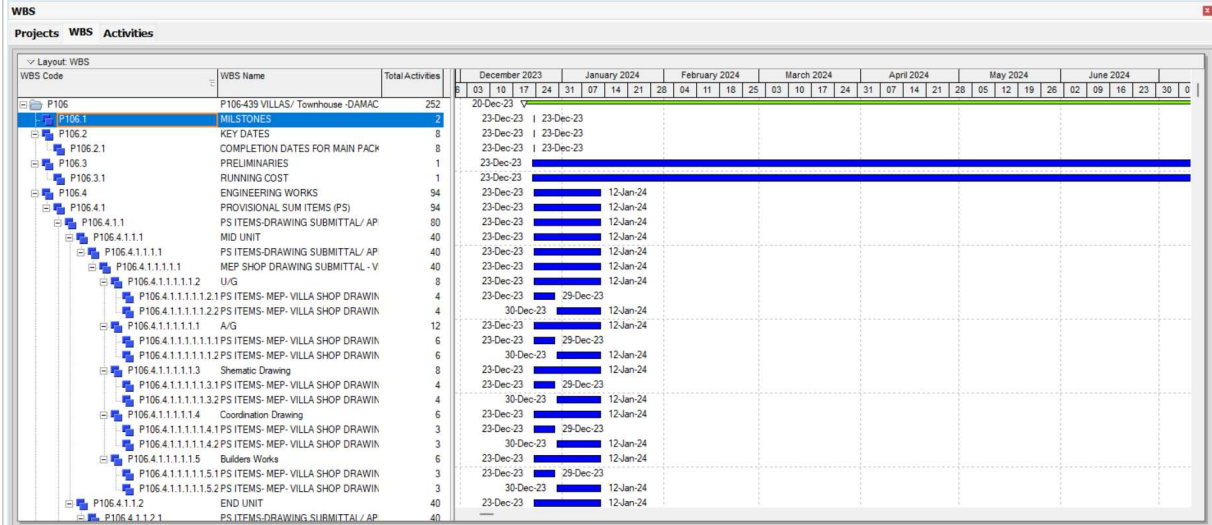
### Scope of my work

- Developed the BL R00 baseline from key dates, preliminaries and engineering works through to installation and handover.
- Organised the engineering package by unit type (mid unit, end unit) and by drawing discipline (underground, above ground, schematic, coordination, builders work).
- Modelled the contractual key dates for the main packages as milestones.
- Loaded labour, equipment and procurement cost, levelled manpower, and produced the S-curve and histogram.

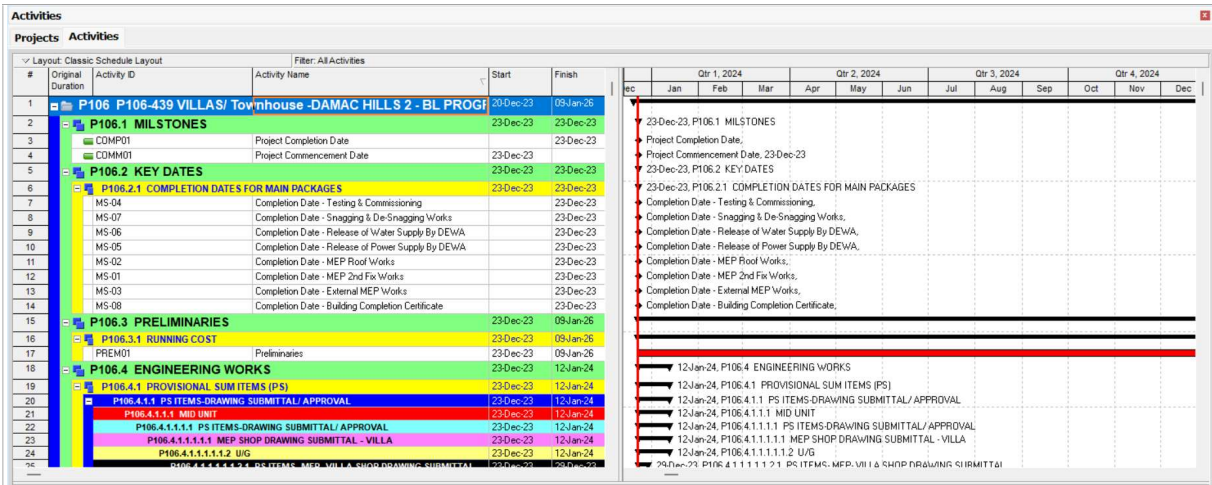
### Work breakdown structure

| WBS code | Description                                                        | Activities |
|----------|--------------------------------------------------------------------|------------|
| P106.1   | Milestones                                                         | 2          |
| P106.2   | Key dates: completion dates for main packages                      | 8          |
| P106.3   | Preliminaries (running cost)                                       | 1          |
| P106.4   | Engineering works: shop-drawing submittal / approval               | 94         |
| —        | Other work packages (procurement, installation, testing, handover) | 147        |
|          | <b>Total activities</b>                                            | <b>252</b> |

## Schedule in Primavera P6



Work breakdown structure and Gantt chart



Activities, logic and Gantt chart

## Scheduling highlights

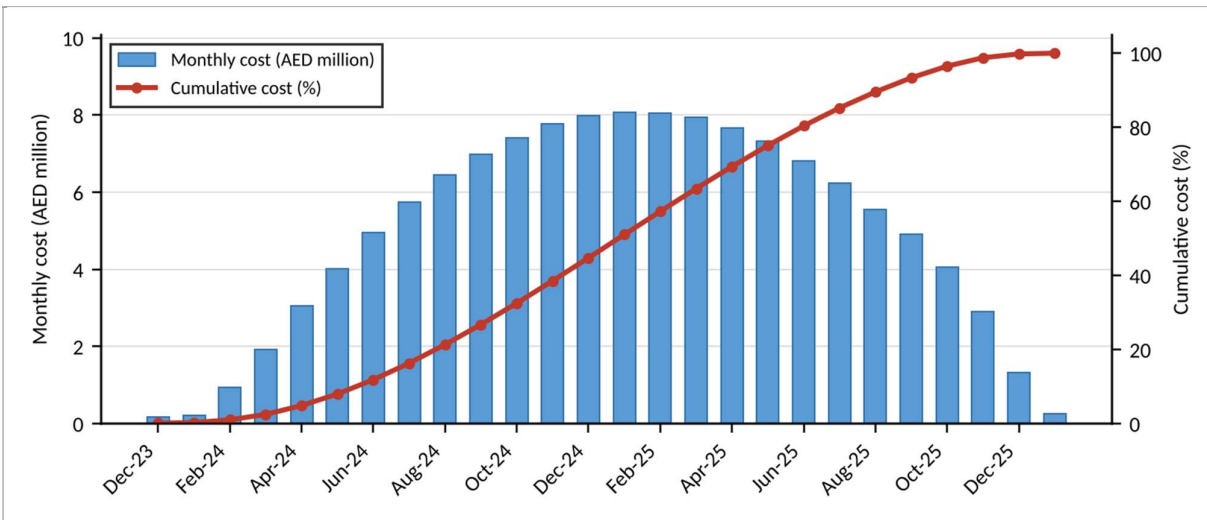
- Shop-drawing submittal and approval cycles (94 activities) are grouped by unit type so approval status is visible for each house type.
- Key dates cover MEP roof works, second fix, external MEP works, DEWA water and power releases, testing and commissioning, snagging and the building completion certificate.
- Repetitive unit work is logic-linked, then levelled so trade crews flow from unit to unit without peaks.

## Cost loading

Budget at completion is AED 128,700,000, loaded by cost account. Labour and equipment cost is resource-driven; the lump-sum item is MEP equipment, materials & subcontract packages.

| Code                              | Cost account                                  | Budget (AED)       | % total     | Loading method      |
|-----------------------------------|-----------------------------------------------|--------------------|-------------|---------------------|
| 01                                | Preliminaries / running cost                  | 11,583,000         | 9%          | Resource + lump sum |
| 02                                | Engineering – shop drawings & submittals      | 6,435,000          | 5%          | Resource-driven     |
| 03                                | Procurement of MEP equipment & materials      | 52,767,000         | 41%         | Lump sum            |
| 04                                | MEP installation – plumbing, HVAC, electrical | 42,471,000         | 33%         | Resource-driven     |
| 05                                | External utility connections                  | 6,435,000          | 5%          | Lump sum            |
| 06                                | Testing, commissioning & handover             | 9,009,000          | 7%          | Resource-driven     |
| <b>Total budget at completion</b> |                                               | <b>128,700,000</b> | <b>100%</b> |                     |

## Cost S-curve



Monthly cost and cumulative cost (%), AED

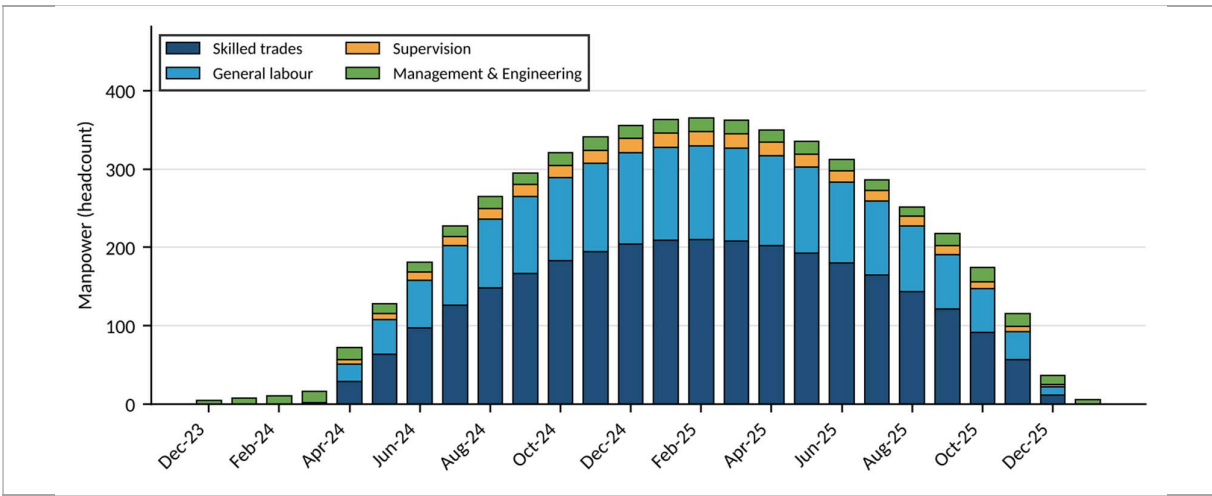
Peak monthly spend is AED 8,067,575 in Jan-25.

## Resource loading

Resources were assigned to activities with units and rates, then levelled to remove over-allocation. Rates are per day; peak units are headcount (or equipment count) in the busiest month.

| Resource                                        | Type      | Peak | Rate (AED/day) | Total days | Cost (AED)         | %             |
|-------------------------------------------------|-----------|------|----------------|------------|--------------------|---------------|
| Project Manager                                 | Labour    | 1    | 3,000          | 676        | 2,028,000          | 1.6%          |
| MEP Project Engineers                           | Labour    | 4    | 1,400          | 1,976      | 2,766,400          | 2.1%          |
| Shop-drawing Draftsmen (CAD / BIM)              | Labour    | 8    | 650            | 858        | 557,700            | 0.4%          |
| Site Engineers & Supervisors                    | Labour    | 12   | 1,000          | 4,940      | 4,940,000          | 3.8%          |
| Foremen                                         | Labour    | 18   | 700            | 7,202      | 5,041,400          | 3.9%          |
| Plumbers & Pipefitters                          | Labour    | 70   | 330            | 26,000     | 8,580,000          | 6.7%          |
| Electricians                                    | Labour    | 85   | 340            | 32,448     | 11,032,320         | 8.6%          |
| HVAC Technicians                                | Labour    | 55   | 360            | 19,708     | 7,094,880          | 5.5%          |
| Helpers & General Labour                        | Labour    | 120  | 160            | 45,708     | 7,313,280          | 5.7%          |
| Testing & Commissioning Engineers               | Labour    | 10   | 1,300          | 936        | 1,216,800          | 0.9%          |
| Lifting Equipment & Access Platforms            | Equipment | 6    | 450            | 2,054      | 924,300            | 0.7%          |
| MEP equipment, materials & subcontract packages | Lump sum  | –    | –              | –          | 77,204,920         | 60.0%         |
| <b>Total</b>                                    |           |      |                |            | <b>128,700,000</b> | <b>100.0%</b> |

## Resource histogram



Site manpower by group (headcount per month)

## Key results

- Peak manpower of 365 in Feb-25, with total labour effort of about 140,452 man-days.
- Budget at completion of AED 128,700,000 across 6 cost accounts.
- Equipment and procurement cost loaded alongside labour, so the S-curve reflects the full budget.

# Project 3: Sales Center & Administrative Offices, Al-Khafji (KSA)

Al-Khafji, Kingdom of Saudi Arabia | Commercial: sales center and administrative offices

|                         |                             |                                      |                            |
|-------------------------|-----------------------------|--------------------------------------|----------------------------|
| <b>31</b><br>ACTIVITIES | <b>4 months</b><br>DURATION | <b>SAR 4.5M</b><br>INDICATIVE BUDGET | <b>88</b><br>PEAK MANPOWER |
|-------------------------|-----------------------------|--------------------------------------|----------------------------|

|                      |                                                    |
|----------------------|----------------------------------------------------|
| Primavera project ID | NREAO                                              |
| Schedule type        | Construction programme (shop drawings to handover) |
| Programme dates      | 05 Feb 2026 – 01 Jun 2026                          |
| Client               | Confidential                                       |
| My role              | Planning & Scheduling Engineer                     |

## Overview

Compact programme for the sales center and administrative offices in Al-Khafji. It runs from shop-drawing preparation (concept design and mood board, MEP and architectural shop drawings), through review and approval, material submittals and delivery, to MEP first and second fix, architectural final fix, testing, commissioning and handover.

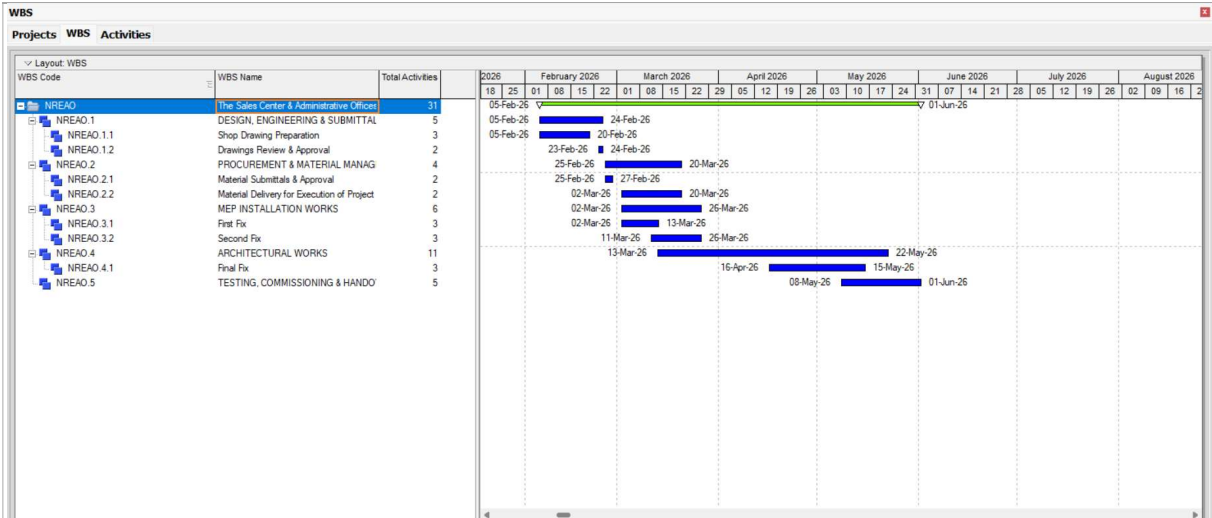
## Scope of my work

- Created a clean five-branch WBS: design and submittals, procurement, MEP installation, architectural works, and testing and handover.
- Linked material submittal approval to delivery so procurement float is visible.
- Cost- and resource-loaded the programme and levelled finishing trades.
- Prepared look-ahead and S-curve reporting for the project team.

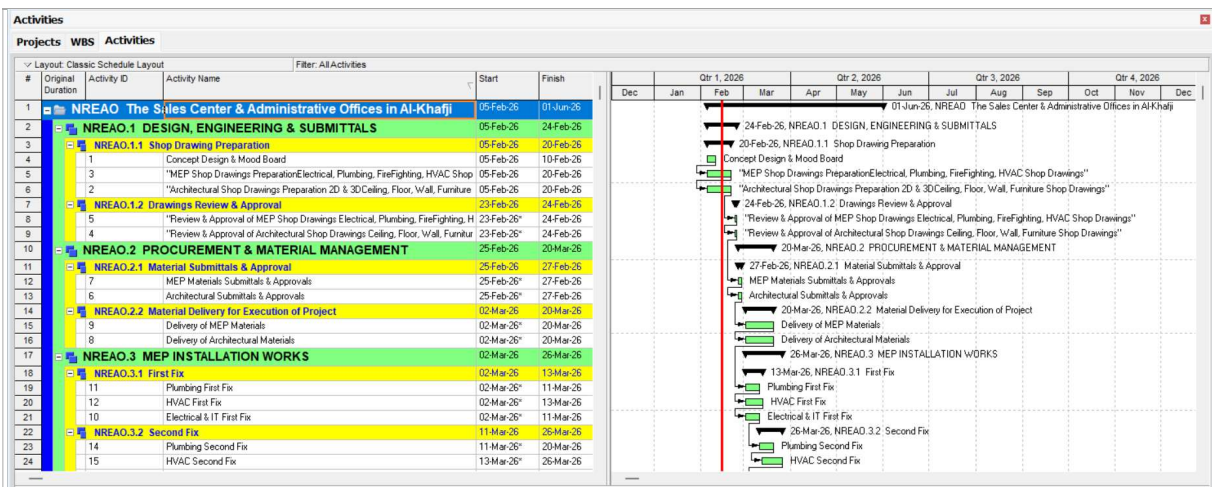
## Work breakdown structure

| WBS code | Description                       | Activities |
|----------|-----------------------------------|------------|
| NREAO.1  | Design, engineering & submittals  | 5          |
| NREAO.2  | Procurement & material management | 4          |
| NREAO.3  | MEP installation works            | 6          |
| NREAO.4  | Architectural works               | 11         |
| NREAO.5  | Testing, commissioning & handover | 5          |
|          | <b>Total activities</b>           | <b>31</b>  |

## Schedule in Primavera P6



Work breakdown structure and Gantt chart



Activities, logic and Gantt chart

## Scheduling highlights

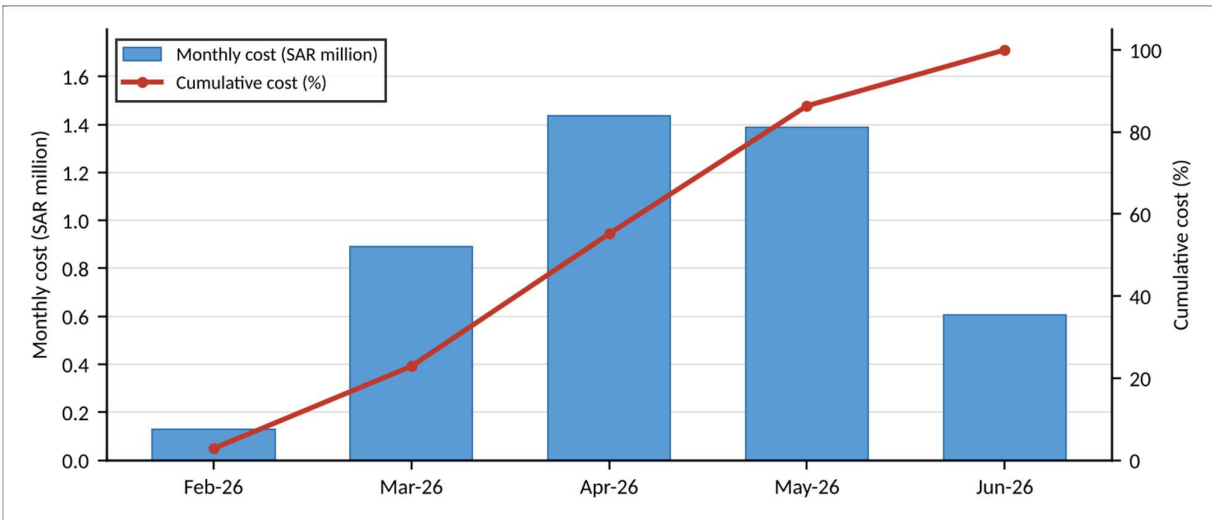
- Shop-drawing preparation covers electrical, plumbing, firefighting and HVAC, plus architectural 2D and 3D ceiling, floor, wall and furniture drawings.
- First fix and second fix are split by MEP trade, so crews overlap with architectural final fix in a controlled sequence.
- Thirty-one activities keep the schedule readable on a single page for the site team.

## Cost loading

Budget at completion is SAR 4,450,000, loaded by cost account. Labour and equipment cost is resource-driven; the lump-sum item is Materials & subcontract packages.

| Code                              | Cost account                          | Budget (SAR)     | % total     | Loading method  |
|-----------------------------------|---------------------------------------|------------------|-------------|-----------------|
| 01                                | Shop drawings & submittals            | 178,000          | 4%          | Resource-driven |
| 02                                | Procurement & material delivery       | 1,691,000        | 38%         | Lump sum        |
| 03                                | MEP installation – first & second fix | 1,201,500        | 27%         | Resource-driven |
| 04                                | Architectural works – final fix       | 1,068,000        | 24%         | Resource-driven |
| 05                                | Testing, commissioning & handover     | 311,500          | 7%          | Resource-driven |
| <b>Total budget at completion</b> |                                       | <b>4,450,000</b> | <b>100%</b> |                 |

## Cost S-curve



Monthly cost and cumulative cost (%), SAR

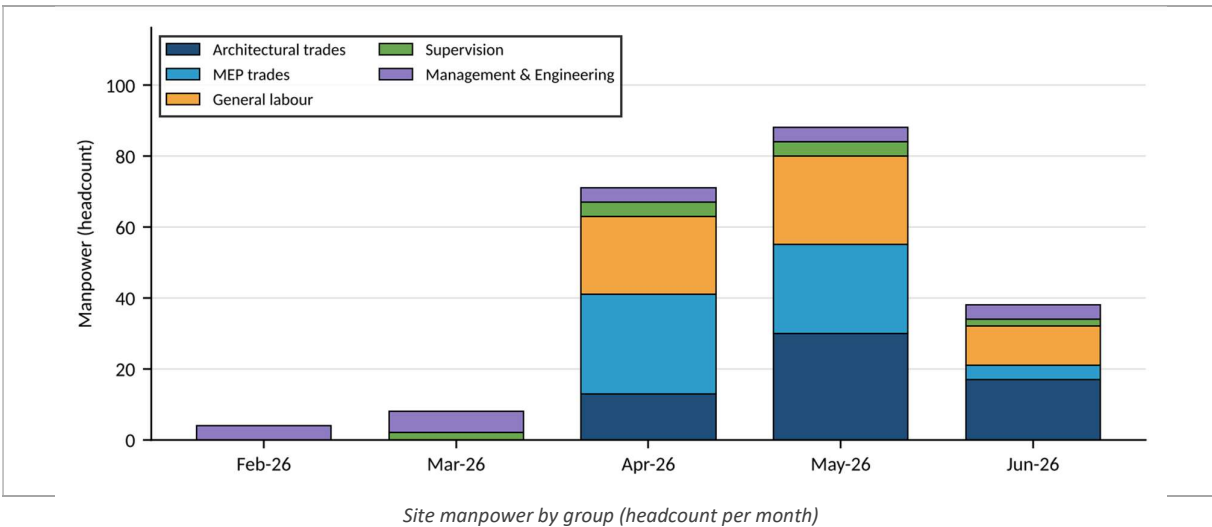
Peak monthly spend is SAR 1,437,072 in Apr-26.

## Resource loading

Resources were assigned to activities with units and rates, then levelled to remove over-allocation. Rates are per day; peak units are headcount (or equipment count) in the busiest month.

| Resource                          | Type      | Peak | Rate (SAR/day) | Total days | Cost (SAR)       | %             |
|-----------------------------------|-----------|------|----------------|------------|------------------|---------------|
| Project Manager                   | Labour    | 1    | 2,600          | 130        | 338,000          | 7.6%          |
| Site & MEP Engineers              | Labour    | 3    | 1,100          | 286        | 314,600          | 7.1%          |
| Shop-drawing Draftsmen            | Labour    | 2    | 600            | 104        | 62,400           | 1.4%          |
| Foremen                           | Labour    | 4    | 650            | 312        | 202,800          | 4.6%          |
| Plumbers                          | Labour    | 8    | 230            | 390        | 89,700           | 2.0%          |
| Electricians                      | Labour    | 12   | 240            | 650        | 156,000          | 3.5%          |
| HVAC Technicians                  | Labour    | 8    | 260            | 442        | 114,920          | 2.6%          |
| Carpenters, Masons & Finishers    | Labour    | 20   | 210            | 1,118      | 234,780          | 5.3%          |
| Painters                          | Labour    | 10   | 190            | 442        | 83,980           | 1.9%          |
| Helpers & General Labour          | Labour    | 25   | 110            | 1,508      | 165,880          | 3.7%          |
| Testing & Commissioning Engineers | Labour    | 2    | 1,000          | 52         | 52,000           | 1.2%          |
| Scissor Lifts & Hoists            | Equipment | 3    | 260            | 182        | 47,320           | 1.1%          |
| Materials & subcontract packages  | Lump sum  | –    | –              | –          | 2,587,620        | 58.1%         |
| <b>Total</b>                      |           |      |                |            | <b>4,450,000</b> | <b>100.0%</b> |

## Resource histogram



## Key results

- Peak manpower of 88 in May-26, with total labour effort of about 5,434 man-days.
- Budget at completion of SAR 4,450,000 across 5 cost accounts.
- Equipment and procurement cost loaded alongside labour, so the S-curve reflects the full budget.

## Project 4: SPCT Baltimore Master Schedule (USA)

Baltimore, Maryland, United States | Marine and port infrastructure: container terminal

|                            |                              |                                      |                             |
|----------------------------|------------------------------|--------------------------------------|-----------------------------|
| <b>1,073</b><br>ACTIVITIES | <b>33 months</b><br>DURATION | <b>USD 145M</b><br>INDICATIVE BUDGET | <b>222</b><br>PEAK MANPOWER |
|----------------------------|------------------------------|--------------------------------------|-----------------------------|

|                      |                                |
|----------------------|--------------------------------|
| Primavera project ID | SPCT-M-1                       |
| Schedule type        | Integrated master schedule     |
| Programme dates      | 01 Jan 2026 – 25 Sep 2028      |
| Client               | Confidential                   |
| My role              | Planning & Scheduling Engineer |

### Overview

Integrated master schedule of 1,073 activities for a container terminal development in Baltimore. It rolls up key contract and project milestones, the design phase (60%, 90% and IFC packages for dredging, the DMCF, the wharf and landside), mobilisation, seasonal dredging windows and construction through substantial completion.

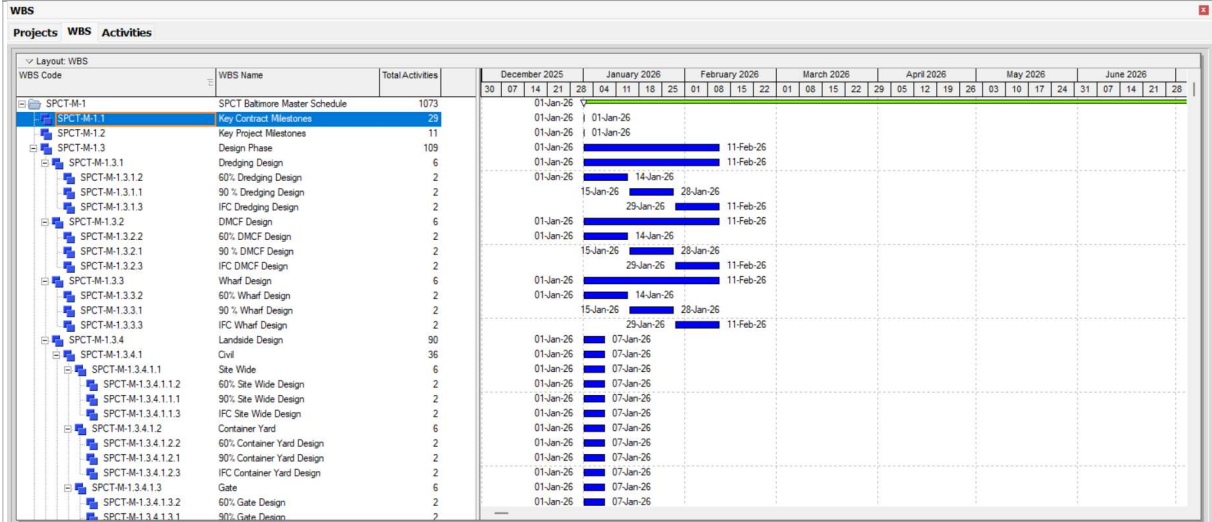
### Scope of my work

- Built the master schedule hierarchy: key contract milestones, key project milestones, design phase and construction packages.
- Modelled 60%, 90% and IFC design review gates for dredging, DMCF, wharf and landside design.
- Applied seasonal dredging windows (1 October to 31 March) and notice-to-proceed milestones for each work area.
- Loaded cost and resources, including seasonal marine equipment, and produced the S-curve and histogram.

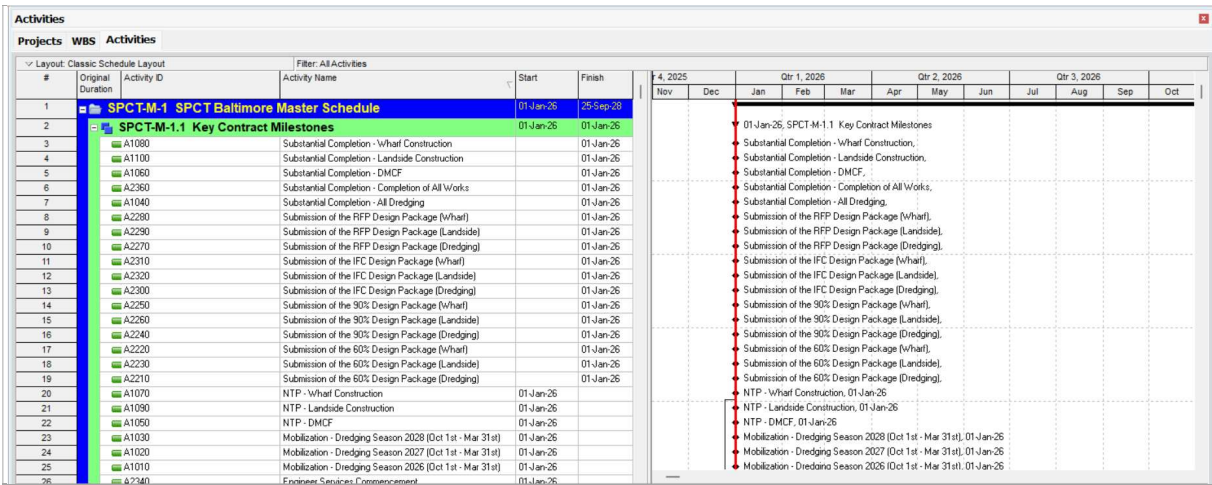
### Work breakdown structure

| WBS code   | Description                                                              | Activities   |
|------------|--------------------------------------------------------------------------|--------------|
| SPCT-M-1.1 | Key contract milestones                                                  | 29           |
| SPCT-M-1.2 | Key project milestones                                                   | 11           |
| SPCT-M-1.3 | Design phase (dredging, DMCF, wharf, landside)                           | 109          |
| —          | Mobilisation, dredging, DMCF, wharf, landside construction and close-out | 924          |
|            | <b>Total activities</b>                                                  | <b>1,073</b> |

## Schedule in Primavera P6



Work breakdown structure and Gantt chart



Activities, logic and Gantt chart

## Scheduling highlights

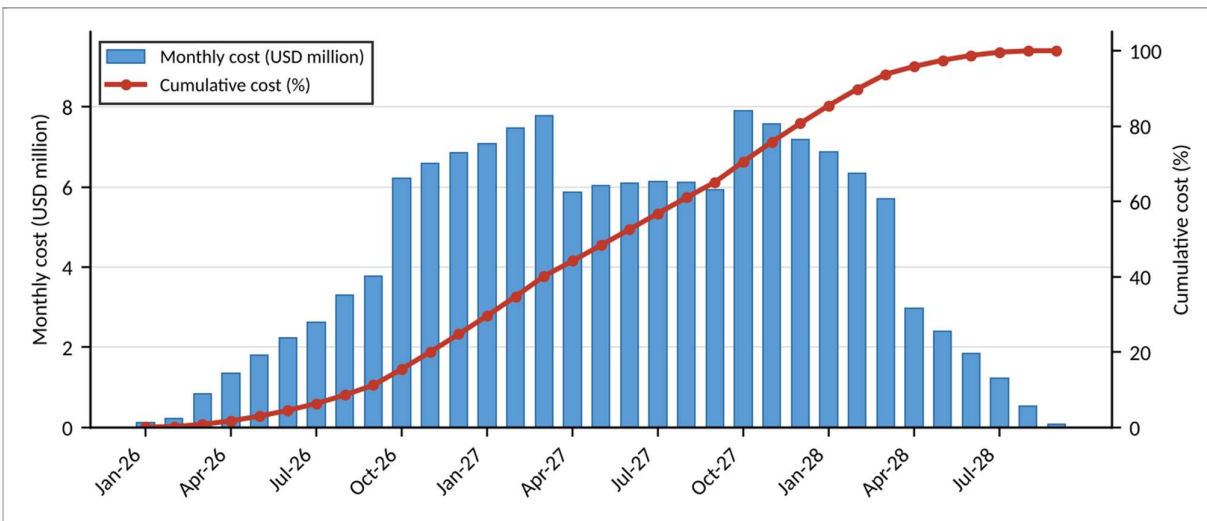
- Substantial completion milestones are tracked separately for wharf construction, landside construction, the DMCF and all dredging.
- Dredging mobilisation per season is held to the 1 October to 31 March window, which shapes the whole marine sequence.
- The master-to-detail hierarchy keeps 1,073 activities readable at executive level.

## Cost loading

Budget at completion is USD 145,000,000, loaded by cost account. Labour and equipment cost is resource-driven; the lump-sum item is Marine & wharf subcontract packages.

| Code                              | Cost account                                   | Budget (USD)       | % total     | Loading method      |
|-----------------------------------|------------------------------------------------|--------------------|-------------|---------------------|
| 01                                | Design phase – dredging, DMCF, wharf, landside | 10,150,000         | 7%          | Resource-driven     |
| 02                                | Mobilisation & preliminaries                   | 8,700,000          | 6%          | Resource + lump sum |
| 03                                | Dredging works                                 | 24,650,000         | 17%         | Resource-driven     |
| 04                                | Dredged material containment facility (DMCF)   | 17,400,000         | 12%         | Resource + lump sum |
| 05                                | Wharf construction                             | 44,950,000         | 31%         | Resource + lump sum |
| 06                                | Landside – container yard, gate & utilities    | 31,900,000         | 22%         | Resource + lump sum |
| 07                                | Testing, commissioning & close-out             | 7,250,000          | 5%          | Resource-driven     |
| <b>Total budget at completion</b> |                                                | <b>145,000,000</b> | <b>100%</b> |                     |

## Cost S-curve



Monthly cost and cumulative cost (%), USD

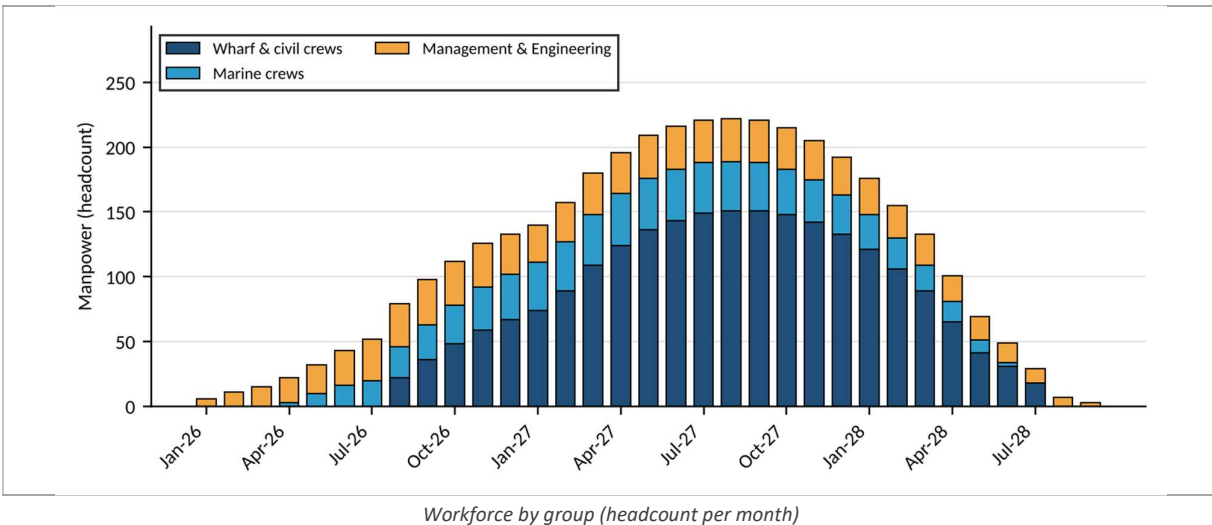
Peak monthly spend is USD 7,894,556 in Oct-27.

## Resource loading

Resources were assigned to activities with units and rates, then levelled to remove over-allocation. Rates are per day; peak units are headcount (or equipment count) in the busiest month.

| Resource                            | Type      | Peak | Rate (USD/day) | Total days | Cost (USD)         | %             |
|-------------------------------------|-----------|------|----------------|------------|--------------------|---------------|
| Project Manager                     | Labour    | 1    | 1,400          | 726        | 1,016,400          | 0.7%          |
| Planning & Controls Engineers       | Labour    | 4    | 800            | 2,068      | 1,654,400          | 1.1%          |
| Design Engineers                    | Labour    | 18   | 850            | 3,322      | 2,823,700          | 1.9%          |
| Construction Managers               | Labour    | 8    | 1,000          | 3,718      | 3,718,000          | 2.6%          |
| Site & QA/QC Engineers              | Labour    | 20   | 650            | 8,404      | 5,462,600          | 3.8%          |
| Marine Crews & Operators            | Labour    | 40   | 450            | 16,368     | 7,365,600          | 5.1%          |
| Piling & Wharf Crews                | Labour    | 90   | 420            | 29,876     | 12,547,920         | 8.7%          |
| Civil & Paving Crews                | Labour    | 70   | 380            | 19,668     | 7,473,840          | 5.2%          |
| Dredgers (seasonal)                 | Equipment | 2    | 38,000         | 672        | 25,536,000         | 17.6%         |
| Piling Rigs & Crane Barges          | Equipment | 6    | 4,500          | 1,892      | 8,514,000          | 5.9%          |
| Earthmoving & Paving Equipment      | Equipment | 14   | 900            | 4,290      | 3,861,000          | 2.7%          |
| Marine & wharf subcontract packages | Lump sum  | –    | –              | –          | 65,026,540         | 44.8%         |
| <b>Total</b>                        |           |      |                |            | <b>145,000,000</b> | <b>100.0%</b> |

## Resource histogram



## Key results

- Peak manpower of 222 in Aug-27, with total labour effort of about 84,150 man-days.
- Budget at completion of USD 145,000,000 across 7 cost accounts.
- Equipment and procurement cost loaded alongside labour, so the S-curve reflects the full budget.

## 4. Let's Work Together

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I can review your current programme, build a new baseline, or take over monthly updates and reporting. A first schedule review is usually delivered within 48 hours of receiving the files.

| How I can help                | Typical first step                                                                   |
|-------------------------------|--------------------------------------------------------------------------------------|
| New project, no schedule yet  | Share the scope, contract dates and BOQ; I return a WBS and baseline outline         |
| Existing schedule needs work  | Send the XER; I return a health check with prioritised fixes                         |
| Cost and resource loading     | Send the programme and budget; I return a loaded schedule with S-curve and histogram |
| Monthly updates and reporting | Agree the reporting calendar; I update, report and flag variance each period         |

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### Engr. Mateen Ul Hassan

Planning & Scheduling Engineer | Oracle Primavera P6

Message me on Upwork or reply to the email this portfolio came with.