



Project Control Services

Programme Management

Risk Analysis

Change Management

Control Systems Auditing

Earned Value Analysis

Training

Construction is a risk business. Project success is highly dependent on the ability of the project controls to predict, react to and mitigate the effects of change. This requires the use of the right tools, techniques and expertise. Critical Path provide a range of Project Control services such as time and cost modelling and analysis as well as systems auditing and design. Using the Earned Value Management (EVM) approach, the ability to examine cost data in the context of detailed schedule information and critical program and technical milestones is established.

What is Project Control?

Project Control systems are required to manage the core project delivery elements of time, resource, risk and change. Control systems are also used to manage quality, communication, and procurement. They are established on carefully defined process and document controls, metrics, performance indicators and forecasting. A key element of project control is to provide early warning of poor performance or increased risk and to supply accurate data which enables the quick mitigation of such problems.

The Need

Project Controls provide the capability to reveal trends toward cost overrun and/or schedule slippage. Identifying those trends early enables more successful project management and reduced risk.

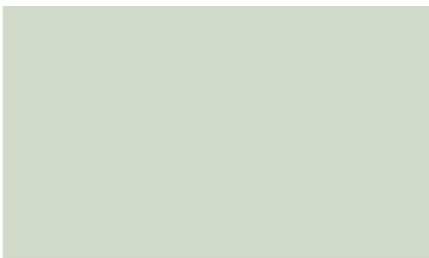
Modern programming software provides many project control tools which are often not utilised effectively largely due to the programmes themselves not being produced and managed correctly.

The Control Process

Critical Path provide a range of services which enable effective project controls to be established. Robust scheduling and cost models are produced which provide benchmarks for time and cost. These models can be updated and interrogated throughout the project to measure performance, identify risk and undertake 'what if' testing. We provide technical expertise in analysing the data provided by the systems using such techniques as Earned Value Management. Critical Path also provide audits on project information systems to ensure the data required for time and cost control can be provided timeously.

Approach

Project Control requires a variety of expertise to effectively implement. Critical Path can provide additional resource to complement Client teams or provide managing or technical services. Our approach is centred on the Earned Value technique which is a best practice project controls process; based upon a structured approach to planning, cost collection & performance measurement. The approach enables the clear determination of 'what you got for what you spent' which is normally difficult to clearly identify on construction and engineering projects.



SERVICES

Programme Management

Critical Path has extensive experience and understanding of construction sequencing and implementation ranging from individual design or construction schedules to integrated Programme Master Schedules. Utilizing the most up-to-date project management software, Critical Path develops dynamic resource loaded schedules that form the heart of the project control system.

Resource Management

Modern project management software enables project resources such as labour, plant and materials to be quantified and associated with each activity on the programme along with cost information. With accurate reporting this enables systematic resource management and cost control to be undertaken throughout the project.

Risk Analysis

Inefficient risk management and claims administration can decimate cash flow and reduce profitability. Critical Path provide Risk Analysis services which identify and quantify risk factors throughout the project. Risk Analysis provides a more accurate assessment of true costs and schedules by properly estimating contingencies. Once risks are known, risk mitigation strategies can be developed. Knowing what risks exist and how to deal with them radically increases the probability of project success.

Change Management

Involves the updating of the Critical Path Method (CPM) schedules and cost models throughout the project using accurate progress data. Change events and delays are also analysed. This is required for ongoing Risk Analysis & mitigation.

Control Systems Auditing

Planning, resource, risk and change control functions are dependent on the ability of the overall project control system to provide accurate project information and progress data. Critical Path can work within client selected control processes and systems or can help develop and implement controls strategies from the outset. In each instance we ensure the system is able to provide the required data in the correct format by ensuring effective communication interfaces and data coding structures are in place.

Earned Value Analysis

Earned Value Analysis (EVA) is a performance measurement which identifies the status of a project at a given point in time regarding both cost and time. It enables an ongoing comparison between target progress and cost against actual progress and cost. This is achieved by relating the current budget for an activity and its percentage complete. Earned value is also sometimes called the Budgeted Cost of Work Performed (BCWP). EVA provides considerable benefits to the monitoring and control process but requires rigorous Programme Management to be implemented effectively.

Training

Critical Path provide tailored training programmes to enable the development of internal client skills required to design and implement effective project control systems. We also provide workshop programmes to help clients develop and communicate the agreed project control strategy and systems to all key project stakeholders.



Critical Path LLC
Mezzanine Number 1
Ahmed Al Harmodi Building
Mussafah, Abu Dhabi
P.O. Box 37003
Telephone:
+971 (0) 25555272
E-mail:
abudhabi@criticalpath-uae.com