

# CHAPTER 10 PROJECT MANAGEMENT WITH PERT CPM

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**What is PERT and CPM in project management?** Technique: PERT is a project management technique used to measure uncertain activities in a project and focuses on time planning and control. In contrast, CPM is a statistical project management technique that manages the well-defined activities of a project, such as time and cost management.

**What are the objectives of PERT and CPM?** The Programme Evaluation Review Technique (PERT) and the Critical Path Method (CPM) are widely used to manage project circles and activities from conception to the close of the project. The advantage of these quantitative tools is the optimization of project duration, time minimization and project efficiency [1] [3].

**Why is PERT important?** PERT Full Form FAQs Why is PERT analysis important?  
Ans: It helps the project manager estimate the minimum time required to complete each task. With the help of PERT, the project manager can estimate the minimum amount of time required to complete the entire project.

**What is CPM in management?** The Critical Path Method (CPM) is a simple but powerful technique for analyzing, planning, and scheduling large, complex projects. It is used to determine a project's critical path—the longest sequence of tasks that must be finished for the entire project to be complete.

**What is an example of a PERT?** For example, if the optimistic time is 30 minutes, the pessimistic time is 60 minutes, and the most likely time is 45 minutes, the PERT formula would be:  $(30\text{min} + (4 \times 45\text{min}) + 60\text{min}) \div 6 = 45 \text{ minutes}$ .

**How to compute PERT CPM?** To use the PERT, you need to calculate the expected duration of each activity using a weighted average formula: (optimistic + 4 x most likely + pessimistic) / 6. Then, you can use the same steps as the CPM to find the critical path and the project duration.

**Which of the following are examples of PERT and CPM?**

**Which are common steps for both CPM and PERT techniques?**

**What are the three time estimates in PERT?** To perform PERT analysis, you need to provide three estimates of activity duration: a pessimistic estimate (tp), an optimistic estimate (to), and a modal estimate (tm). These three estimates are used to obtain a weighted average that is assumed to be a reasonable estimate of the activity duration.

**What is PERT most useful for?** PERT is most useful in large-scale projects where time is the major factor rather than cost as the technique provides estimates based on optimistic, pessimistic, and expected timelines. PERT charts make it easy to visualize and organize complex projects illustrating the dependencies between each step in the project.

**How to use PERT in project management?**

**What are the pros and cons of PERT project management?** The main advantage of PERT charts is that they offer a clean, minimalist overview of a project. This makes it easier to identify important success factors such as the critical path, key tasks and potential bottlenecks. The main disadvantage of PERT charts is that they can be very labour-intensive to create.

**What are the three main objectives of CPM?** The primary goals of CPM are to determine the critical path, estimate the minimum project duration, and highlight the tasks that cannot be delayed without affecting the overall timeline.

**How to find critical path in PERT?** How to Find the Critical Path on a PERT Chart. To find the critical path on a PERT chart, calculate the earliest and latest start and finish times for each task. Next, identify the longest task sequence in the project, where the earliest and latest start times are the same.

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**What are the three phases of CPM?** For QUESTION 1, consider that the three-phase procedure for the critical path method (CPM) involves three main components: planning, scheduling, and one additional phase which helps in managing and monitoring the progress of the project.

**What is the difference between a PERT CPM diagram and a gantt chart?** PERT and Gantt charts enable project managers to track tasks and project status. PERT charts display tasks in a network diagram, highlighting dependencies; Gantt charts show tasks and timelines in a bar graph. Both have a place in the PMBOK's work breakdown structure (WBS).

**Is PERT more accurate than CPM?** CPM is more accurate when activity durations are stable and predictable, while PERT is more realistic when activity durations are uncertain and variable.

**Which of the following are examples of PERT and CPM?**

**What does the PERT stand for?** PERT stands for Program Evaluation and Review Technique.

## **SharePoint Document Lifecycle Management (DLM): A Q&A Guide**

**What is SharePoint Document Lifecycle Management?**

SharePoint Document Lifecycle Management (DLM) is a feature within SharePoint that enables organizations to manage the lifecycle of their documents, from creation and collaboration to retention and disposition. DLM helps ensure documents are organized, secure, and compliant with regulations and policies.

**How does SharePoint DLM work?**

DLM uses SharePoint's policies and features to manage documents throughout their lifecycle. Policies can be created to define actions for specific document types, such as:

- Setting content expiration dates
- Triggering content deletion or archival

- Applying watermarks or labels for security
- Implementing information protection and encryption

### Why should organizations use SharePoint DLM?

DLM offers numerous benefits for organizations, including:

- **Improved document governance:** DLM ensures compliance with regulations and policies by automating document retention and disposition processes.
- **Increased efficiency:** DLM simplifies document management by automatically performing tasks that would otherwise require manual intervention.
- **Enhanced security:** DLM protects sensitive documents by setting access permissions and applying security measures throughout their lifecycle.
- **Reduced storage costs:** DLM can automatically dispose of expired or unnecessary documents, reducing storage costs and improving storage management.

### How do I implement SharePoint DLM?

Implementing DLM requires planning and configuration. It involves:

- Creating DLM policies that define actions for specific document types
- Assigning DLM policies to document libraries or sites
- Enabling audit and logging to track DLM actions
- Monitoring and managing the DLM system to ensure it is functioning as intended

### What are some best practices for SharePoint DLM?

To optimize the benefits of SharePoint DLM, organizations should consider the following best practices:

- **Use meaningful policies:** Create clear and relevant DLM policies that align with business needs and regulations.

- **Review and adjust policies regularly:** Monitor the effectiveness of DLM policies and adjust them as needed to ensure they remain relevant and effective.
- **Train users on DLM:** Educate users on the DLM system and its benefits to encourage adherence to policies and responsible document management.
- **Consider hybrid DLM:** Explore hybrid DLM solutions that combine SharePoint with other platforms, such as Microsoft 365, to enhance document management capabilities.

### How do you solve circuit theory?

**How to study circuit analysis?** A circuit diagram can be analyzed by breaking down the schematics of a circuit, simplifying the resistors into one, and applying fundamental laws of physics. There are three main circuit analysis techniques: the fundamental laws, using the node voltage method or the mesh current method.

**How hard is circuit theory?** Engineering Circuit Analysis, also known as Circuit Theory, is difficult for most students primarily because the basic laws seem very simple. This leads the student to believe that the exam problems will not be too difficult, when in reality there is a large amount of technique in solving circuit problems.

**What is the formula for circuit analysis?** Three essential laws for working with circuits. One of the most important device equations is Ohm's law, which relates current ( $I$ ) and voltage ( $V$ ) using resistance ( $R$ ), where  $R$  is a constant:  $V = IR$  or  $I = V/R$  or  $R = V/I$ .

**What math is used in circuit analysis?** Linear Algebra: Used to solve systems of linear equations that arise in circuit analysis. Applications include network theory and the analysis of electrical circuits using matrices and vector spaces.

**Can ChatGPT solve circuits?** The first experiment tested ChatGPT's ability to diagnose issues from circuit images. The results showed that while ChatGPT could generate a broad range of potential solutions, its approach was more akin to hypothesizing rather than precise problem-solving.

**Is circuit analysis a skill?** Electrical Circuit Analysis It involves analyzing and solving mathematical equations to determine the voltage, current, resistance, and power in... This Skill is part of Lightcast Open Skills, a library of over 32,000 skills used by schools, communities, and businesses that has become the standard language.

**How do you calculate circuit theory?** Voltage for each circuit element in a series circuit can be calculated by applying Ohm's law:  $V=R \cdot I$ . Also, if the element's resistance is unknown, the Kirchhoff loop rule helps to calculate the voltage across such a circuit element.

**What is the formula for electrical circuit theory?** So, one must add up all the values in order to get the total resistance of resistors connected in series. For Parallel resistors: Each resistor that exists in the circuit has the full voltage. According to Ohm's law, the currents that flow via the individual resistors are  $I_1 = V/R_1$ ,  $I_2 = V/R_2$ , and  $I_3 = V/R_3$ .

**How do you calculate current theory?** The formula for electric current is  $I=V/R$ . I stand for current, V stands for voltage, and R stands for resistance.

**What is a circuit formula?** Due to the resistors' connection, the voltage source V causes the identical current I to flow through each of them. According to Ohm's Law, a circuit with resistance R and voltage V would be as follows:  $I = V / R$ . Consequently, allowing the equation to be rearranged by multiplying both sides by R.  $V = IR$ .

**How did the Cold War begin in DBQ?** It began when Nazi Germany surrendered and the alliance between the U.S. and U.S.S.R. started to fall apart. The "iron curtain" as referenced in Document 1 was an imaginary line that separated East and West Europe.

**What is the Cold War answers?** The Cold War was an ongoing political rivalry between the United States and the Soviet Union and their respective allies that developed after World War II. This hostility between the two superpowers was first given its name by George Orwell in an article published in 1945.

**What was the policy President Truman suggested in the speech?** Truman told Congress that "it must be the policy of the United States to support free peoples who are resisting attempted subjugation by armed minorities or by outside pressures." Truman contended that because totalitarian regimes coerced free peoples, they automatically represented a threat to international peace and ...

**How was the Iron Curtain a dividing line?** The Iron Curtain formed the imaginary boundary dividing Europe into two separate areas from the end of World War II in 1945 until the end of the Cold War in 1991. The term symbolized efforts by the Soviet Union to block itself and its satellite states from open contact with the West and non-Soviet-controlled areas.

**How did the Cold War start?** The Cold War began with the announcement of the Truman Doctrine in 1947, started a gradual winding down with the Sino-Soviet split between the Soviets and the People's Republic of China in 1961, and ended with the collapse of the Soviet Union in 1991.

**What started the Cold War essay?** The Cold War was caused by the social climate and tension in Europe at the end of World War II and by the increasing power struggles between the Soviet Union. Economic separation between the Soviets and the west also heightened tensions, along with the threat of nuclear war.

**What is Cold War in short answer?** A cold war is a state of conflict between nations that does not involve direct military action but is pursued primarily through economic and political actions, propaganda, acts of espionage or proxy wars waged by surrogates.

**How to answer Cold War questions?** Provide evidence to support your point and the theme of the answer. Make the evidence specific, eg use key terms, dates and names. Be precise with the facts – don't generalise. Interpret the evidence and show how it agrees or disagrees with the question theme.

**Why is the Cold War cold quizlet?** It was called the Cold War because there was no actual fighting the Soviet Union and the United States were just creating and testing nuclear weapons. International organization founded in 1945 to promote world peace and cooperation.

**What did Truman think of communism?** Communism subjects the individual to arrest without lawful cause, punishment without trial, and forced labor as the chattel of the state. It decrees what information he shall receive, what art he shall produce, what leaders he shall follow, and what thoughts he shall think.

**What bill did Truman pass?** Congress did approve parts of the Fair Deal, however; Truman won passage of a moderately effective public housing and slum-clearance bill in 1949, an increase in the minimum wage that same year, and a significant expansion of Social Security in 1950.

**Who was primarily responsible for the Cold War?** The Soviet Union were thought to be at fault for starting the cold war by many historians at the time of the cold war. The reason for this is because the Soviet Union were known to be infiltrating liberated countries and forcing communism upon them which aggravated the western powers.

**Why did the Cold War start Dbq?** The cold war was mainly started after the success of the alliance that was formed against Nazi Germany. This competition supremacy on nuclear warfare attracted other countries that also started making nuclear weapons due to the tension that existed in the world.

**Did the Iron Curtain start the Cold War?** Then, on March 5, 1946, at Westminster College in Fulton, Churchill's famous words "From Stettin in the Baltic, to Trieste in the Adriatic, an iron curtain has descended across the continent," ushered in the Cold War and framed the geo-political landscape for the next 50 years.

**Was the Cold War an actual war?** Soldiers of the Soviet Union and the United States did not do battle directly during the Cold War. But the two superpowers continually antagonized each other through political maneuvering, military coalitions, espionage, propaganda, arms buildups, economic aid, and proxy wars between other nations.

**What was the purpose of the Truman Doctrine?** The purpose of the Truman Doctrine was to prevent communism worldwide, explicitly stopping the Soviet Union from expanding its sphere of influence. The doctrine was considered a benchmark foreign policy that's helped shape America's foreign affairs.



**Why was communism a threat to the US?** To combat the influence and spread of communism around the world, the United States used diplomacy to promote democracy. To the United States and its allies, communism represented a threat to free trade, free elections, and individual freedoms. This threat was heightened by the increased number of nuclear weapons.

**What was the policy of containment?** The US policy of containment involved unalterable counterforce over a long period of time. The purpose was to halt the expansion of communism and prevent it from advancing around the world. The containment doctrine was proposed by American diplomat George F. Kennan.

**How did it start the Cold War?** As World War II transformed both the United States and the USSR, turning the nations into formidable world powers, competition between the two increased. Following the defeat of the Axis powers, an ideological and political rivalry between the United States and the USSR gave way to the start of the Cold War.

**Why did the Cold War start for dummies?** After World War II the United States and the Soviet Union were the superpowers of the world. They became rivals as they each sought to prevent the other from gaining too much power. The period of tension that existed between them came to be known as the Cold War.

**What was the goal of the Marshall Plan?** For the United States, the Marshall Plan provided markets for American goods, created reliable trading partners, and supported the development of stable democratic governments in Western Europe. Congress's approval of the Marshall Plan signaled an extension of the bipartisanship of World War II into the postwar years.

**What was the cause of the World War 1 Dbq 19?** The causes of WWI were the assassination of Archduke Ferdinand, the rivalry between France, Great Britain, and Germany; and the argumentative governments that separated Europe.

**What started the Cold War quizlet?** The Cold War began because the Soviet Union was increasing their military power. The United States was trying to contain communism and began paying attention to the Soviets military. Because of this, the United States, also began supplying for a war.

**What was the underlying cause of World War 1 Dbq answer key?** Despite the assassination of Archduke Ferdinand of Austria, the spark of the Great War, there were three underlying causes of this European centred warfare; imperialism, nationalism, and militarism.

**What was the cause of the World War 2 Dbq?** DBQ: Causes of WWII During the period previous to World War II causes that led to World War II included German attempt of imperialism in Europe, pro-appeasement ideologies towards German military expansion, and ignoring con-appeasement ideologies towards German military expansion.

**Why did we enter World War I DBQ?** Although the United States attempted to avoid involvement in the war, by 1917 they joined the Allied Powers. independence from the Austrian Hungarian Empire. One cause of the American involvement in WWI was the german use of unrestricted submarine warfare. The Germans sunk a passanger liner called the Lusitania.

**What were the causes of the First World War answer?** The main causes of World War 1 were alliances between countries, militarism, nationalism, imperialism, secret diplomacy, and internationalism. The assassination of Archduke Franz Ferdinand, heir to the throne of Austria-Hungary, by Gavrilo Princip in Bosnia is widely accepted as the starting point for World War I.

**Why did World War 1 start quizlet?** The direct cause of WWI was the assassination of Archduke Franz Ferdinand at Sarajevo on 28 June 1914.

**Who was responsible for starting Cold War?** The Soviet Union were thought to be at fault for starting the cold war by many historians at the time of the cold war. The reason for this is because the Soviet Union were known to be infiltrating liberated countries and forcing communism upon them which aggravated the western powers.

**What was one of the reasons the Cold War started?** The Cold War developed as differences about the shape of the postwar world created suspicion and distrust between the United States and the Soviet Union. The first – and most difficult – test case was Poland, the eastern half of which had been invaded and occupied by the USSR in 1939.

**What is a good question for the Cold War?** Sample questions: What if any, were your fears regarding the Soviet Union and a nuclear war? What Presidents stand out to you during the Cold War and why?

**What were the causes of WW1 answer sheet?**

**How did alliances lead to WW1?** How did the alliance system cause WW1? Both the Allied and the Central Powers were very concerned by the perceived threat by the other side. As one country grew stronger, so did its alliance. This, in turn, caused concern among enemies and their perceived threat.

**Who caused WW1?** The immediate cause of World War I that made the aforementioned items come into play (alliances, imperialism, militarism, nationalism) was the assassination of Archduke Franz Ferdinand of Austria-Hungary. In June 1914, a Serbian-nationalist terrorist group called the Black Hand sent groups to assassinate the Archduke.

**Why did the Cold War begin in DBQ?** The major driving force of the Cold War is the difference in political ideologies between the nations. Both USSR and the USA did not support the spread of each of their ideologies. The conflict in ideologies made it prevalent that the superpowers- USSR and the United States did not trust each other.

**What were the 3 main causes of World War 2?**

**What is an underlying cause of World War II?** Primary themes in historical analysis of the war's origins include the political takeover of Germany in 1933 by Adolf Hitler and the Nazi Party; Japanese militarism against China, which led to the Japanese invasion of Manchuria and the Second Sino-Japanese War; Italian aggression against Ethiopia, which led to the ...

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