



Course Title

Project Commissioning Risk Management

Overview

Commissioning is a critical project stage, and it is therefore vital to project outcomes that this activity goes well. Risk management is a key project discipline that can maximise the probability of successful commissioning. Although risk management is applied at all stages of a project, there are particular problems and opportunities in the commissioning phase that require specialist consideration. This course will help you to understand project risk management, and then use it effectively in a commissioning setting.

Adopting an integrated approach to commissioning and risk management, course delegates will increase their confidence that they will deliver on commissioning objectives, thus making project success more likely.

What You Will Learn from This Course:

- Why risk management is a critical tool
- How risk management integrates into commissioning
- How to identify, plan for and respond to commissioning risks
- How to use risk qualitative and quantitative risk tools
- How to allocate appropriate contingency for risk to both schedule and budget
- Techniques for communicating and reporting commissioning risk and actions
- How commissioning risk fits into project controls
- How to assure commissioning risk management
- Commissioning risk in non-traditional projects

Why Should You Attend this Course?

The commissioning phase of a project presents specific risks and opportunities, which may require particular treatment and management. Additionally, and all too often, project commissioning picks up the problems encountered earlier in the project and ends up dealing with them in limited remaining time. This course will enable you to get ahead of the game by addressing the risks and opportunities earlier, by identifying specific, effective actions that can be taken, and by communicating well to ensure they are carried out. By learning how to calculate contingency in both time and budget, you will have the resources to deal with risks that appear. In this way, you can maximise the probability that the commissioning will achieve its goals, and complete in time and on budget.

We will learn how to use risk management disciplines to improve our commissioning outcomes and we will look at tools and techniques to identify, plan for and respond to the risks entailed. We will examine how to report

and communicate risk information in a meaningful fashion to our project stakeholders and how to assure our risk management process.

Finally, we will look at some related topics, such as assurance and use in non-linear project lifecycles (e.g. agile projects).

Not only will commissioning team members benefit from this course, but other related disciplines, including project controls and project management personnel will gain a deeper understanding of all that is involved in this phase of the project, thus helping them to perform better in their own roles.

The course is full of practical techniques and examples, with the intention of turning knowledge into practical benefit and the worked examples, case studies and exercises are intended to make applying the knowledge gained much easier.

Finally, the instructor will include opportunities to discuss the real-world problems and issues and questions that are affecting delegates in their own projects and working lives, so that improvements and solutions can be implemented as soon as delegates return to their desks. Often, helpful advice can be gained from the experience of other delegates, and the course setting provides opportunities to do this.

Who Should Attend This Course?

- Project Managers
- Commissioning Team Members
- Project Controls Team Members
- Project Management Office Staff
- Project Team Members
- Project Sponsors
- Project Consultants
- Project Engineers

Outcome of this Course

By the end of this intensive 4-day course, attendees will be able to:

- Understand the importance of good risk management for commissioning
- Effectively identify, analyse, plan for, and respond to commissioning risks
- Select the appropriate risk management tools and use them proficiently
- Estimate the cost and schedule contingency to be allocated for risks in this phase
- Report and communicate fully and clearly on risk matters during this project stage
- Assure risk management activities during commissioning
- Describe commissioning risk in non-traditional project types

Course Length

4 days

Course Content

An interactive mix of lecture, case studies, group discussion and activities will be used to illustrate and apply the methods, tools and techniques needed to integrate project commissioning and risk management. The following topics will be covered:

Section 1 – Introduction to project commissioning risk management

- Overview of project commissioning
- Overview of project risk management
- Fit to project management lifecycle
- Integrating commissioning and risk management – in brief

Section 2 – The challenges of commissioning

- Why commissioning has particular issues
- Challenges at each stage of the commissioning process

Section 3 – Risk management

- Project risk management defined and explained
- Benefits and barriers
- Risk management process
- Risk management tools, both qualitative and quantitative
- Risk response techniques
- Human factors in risk management
- IT tools

Section 4 – Integrating project commissioning and risk management

- Integrating risk with the whole commissioning process
- Common sources of commissioning risk
- Common methods and actions for handling commissioning risk
- Risk-based allocation of contingency to commissioning schedule and budget
- Communication with project stakeholders

Section 5 – Related Topics

- Assurance considerations
- Project controls considerations
- Use in non-linear project lifecycles

Case Studies

- Presentation of real-life examples and case studies of commissioning risk management

Practical Exercises

- Worked examples, where delegates participate in groups or teams to manage commissioning risk in fictitious but realistic project settings.

Summary and Next Steps

- Summary
- Things you can do next
- Reference Material