



# Mastering Delay Analysis in Construction Contracts Training Course (14 Days)



**AGILE LEADERS**  
Training Center

11 - 29 Oct 2026

مسقط



# Mastering Delay Analysis in Construction Contracts Training Course (14 Days)

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## Course Overview

The Mastering Delay Analysis: Optimize Construction Project Success program provides a complete understanding of delay analysis in construction, combining technical, contractual, and analytical perspectives to enhance project performance and claim resolution.

Through this 14-day immersive experience, participants will explore delay analysis methods in construction, forensic schedule analysis training, disruption and delay claims, and time impact analysis training using real-world cases and simulations.

The program integrates the SCL Delay and Disruption Protocol, as-planned vs as-built analysis, collapsed as-built method, and MS Project delay analysis to ensure participants master both theory and practical application. It also emphasizes legal interpretations, proactive mitigation strategies, and industry best practices for road construction project delay management and infrastructure delay analysis training.

## Target Audience

- Project Managers and Construction Engineers
- Contract Managers and Claims Consultants
- Delay Analysts and Forensic Schedulers
- Quantity Surveyors and Cost Engineers
- Construction Lawyers and Contract Administrators
- Planning and Scheduling Specialists

## Targeted Organizational Departments

- Project Management and Planning Departments
- Legal and Claims Units
- Contract Administration and Compliance Teams
- Engineering and Operations Divisions
- Quality Assurance and Risk Management Departments

These departments benefit from practical insights in construction delay analysis course, forensic schedule analysis training, delay reporting and documentation, and project scheduling and delay management.

## Targeted Industries

- Construction and Infrastructure Development
  - Civil and Road Engineering Projects
  - Oil & Gas and Energy Infrastructure
- Real Estate Development and EPC Contracting
- Government and Transportation Agencies

These industries face continuous challenges with delay and disruption claims and benefit from mastering structured, standardized, and software-supported delay analysis techniques in projects.

## Course Offerings

By the end of this course, participants will be able to:

- Identify and categorize types of delays excusable, compensable, concurrent, non-excusable.
- Apply key delay analysis methods in construction such as as-planned vs as-built, impacted, collapsed, and time-impact analysis.
- Select the right choice of delay analysis method based on project data and contract requirements.
- Interpret contractual, legal, and technical aspects of delay and disruption claims following the SCL Delay and Disruption Protocol.
- Prepare accurate delay reporting and documentation for contract and arbitration purposes.
- Implement construction delay mitigation strategies, acceleration and recovery techniques, and proactive management practices.
- Use MS Project delay analysis and other software to support forensic schedule analysis and report preparation.
- Apply lessons from legal precedents and global best practices to strengthen claim defensibility.

## Training Methodology

The course uses a blended approach combining instructor-led sessions, guided group workshops, and case-based analysis.

Participants will:

- Work on real construction and road infrastructure delay case studies.
- Perform delay quantification and forensic schedule exercises using MS Project.
- Engage in peer discussions on delay and disruption claims and contractual interpretations.
- Review arbitration examples aligned with the SCL Delay and Disruption Protocol.
- Reflect daily on practical takeaways and implementation strategies.

## Course Toolbox

- Digital materials on delay analysis in construction
- Templates for as-planned vs as-built and time impact analysis
- Checklists for delay reporting and documentation
- Case studies referencing the SCL Delay and Disruption Protocol
- Practice examples using MS Project
- Legal precedent summaries on delay and disruption claims



## Course Agenda

### Day 1: Foundations of Delay Analysis and Contractual Context

- Understanding project delays and their primary causes Topic 1: •
- Core principles of delay analysis in construction projects Topic 2: •
- Contractual obligations and risk allocation under FIDIC and NEC Topic 3: •
- The life cycle of delay and disruption claims Topic 4: •
- Legal implications and dispute triggers in delay analysis Topic 5: •
- Case insights: Overview of delay dispute precedents Topic 6: •
- Reflection on the fundamentals of delay analysis and contractual compliance Reflection & Review: •

### Day 2: Types and Classifications of Delays

- Identifying excusable, non-excusable, and compensable delays Topic 1: •
- Understanding concurrent delay in construction Topic 2: •
- Differentiating between employer and contractor-caused delays Topic 3: •
- Establishing entitlement for extension of time claims Topic 4: •
- Evaluating risk-sharing mechanisms in contract delay provisions Topic 5: •
- Comparative case studies: Delay classification across jurisdictions Topic 6: •
- Reflection on delay classification and entitlement principles Reflection & Review: •

### Day 3: Delay Claim Life Cycle and Claim Preparation

- Understanding the structure and stages of delay claims Topic 1: •
- Evidence collection and documentation standards Topic 2: •
- Correlating delay causes with time and cost impacts Topic 3: •
- Quantifying claims and preparing defensible submissions Topic 4: •
- Role of legal precedent in successful delay claims Topic 5: •
- Case study: Lifecycle of a delay claim from notice to resolution Topic 6: •
- Reflection on claim preparation and substantiation techniques Reflection & Review: •

### Day 4: Programming and Project Scheduling Techniques

- Developing construction schedules and baseline programs Topic 1: •
- Work Breakdown Structure WBS and sequencing logic Topic 2: •
- Applying CPM programming techniques for delay analysis Topic 3: •
- Critical path identification and schedule integrity checks Topic 4: •
- Hands-on demonstration: MS Project delay analysis fundamentals Topic 5: •
- Understanding schedule updates and data management Topic 6: •
- Reflection on schedule development and accuracy validation Reflection & Review: •

## Day 5: Baseline Validation and Programme Integrity

- Establishing a reliable and auditable baseline Topic 1: •
- Float management and total float allocation Topic 2: •
- Incorporating time-risk allowances and milestones Topic 3: •
- Resource loading, leveling, and schedule realism Topic 4: •
- Techniques for program validation and approval Topic 5: •
- Common pitfalls in baseline validation and how to avoid them Topic 6: •
- Reflection on the importance of program integrity in delay analysis Reflection & Review: •

## Day 6: Recording and Monitoring Delays

- Techniques for monitoring progress and identifying delays Topic 1: •
- Maintaining contemporaneous project records Topic 2: •
- Reporting procedures for delay events Topic 3: •
- Tools and templates for delay documentation and analysis Topic 4: •
- Managing contractual notices and record submissions Topic 5: •
- Common documentation errors in delay reporting Topic 6: •
- Reflection on effective delay tracking and monitoring Reflection & Review: •

## Day 7: As-Planned vs As-Built Analysis

- Foundations of as-planned vs as-built analysis Topic 1: •
- Identifying deviations and performance gaps Topic 2: •
- Measuring the impact of critical delays Topic 3: •
- Practical demonstration using MS Project Topic 4: •
- Case study: Road construction project delay management Topic 5: •
- Verification of as-built data and reliability assessment Topic 6: •
- Reflection on comparative delay analysis methodologies Reflection & Review: •

## Day 8: Impacted As-Planned and Collapsed As-Built Methods

- Concept and process of impacted as-planned analysis Topic 1: •
- Conducting collapsed as-built delay assessments Topic 2: •
- Additive vs. subtractive simulation in delay modeling Topic 3: •
- Selecting the appropriate delay analysis method Topic 4: •
- Performing time impact analysis using project data Topic 5: •
- Limitations of simulation-based techniques Topic 6: •
- Reflection on method selection and analytical precision Reflection & Review: •



## Day 9: Concurrency and Critical Path Evaluation

- Understanding the principles of concurrent delay Topic 1: •
- Establishing causation and dominance of delays Topic 2: •
- Critical path recalculation and impact mapping Topic 3: •
- Role of float management in concurrency evaluation Topic 4: •
- Demonstration: Analyzing concurrency in MS Project Topic 5: •
- Presenting concurrency results in expert reports Topic 6: •
- Reflection on concurrency evaluation and delay allocation Reflection & Review: •

## Day 10: Application of the SCL Delay and Disruption Protocol

- Structure and objectives of the SCL Delay and Disruption Protocol Topic 1: •
- Prospective vs retrospective delay analysis under SCL guidance Topic 2: •
- Integration of SCL principles into contract administration Topic 3: •
- Delay entitlement and evidentiary standards Topic 4: •
- Case application of the SCL Protocol in real disputes Topic 5: •
- Cross-referencing SCL principles with FIDIC and NEC Topic 6: •
- Reflection on standardization and protocol compliance Reflection & Review: •

## Day 11: Quantification of Delays and Disruptions

- Measuring time-related and cost-related impacts of delays Topic 1: •
- Disruption analysis and productivity assessment Topic 2: •
- The measured mile method and practical application Topic 3: •
- Correlating costs to delay periods Topic 4: •
- Visual reporting with MS Project and Excel integration Topic 5: •
- Demonstration: Quantitative assessment of delay damages Topic 6: •
- Reflection on quantification accuracy and report clarity Reflection & Review: •

## Day 12: Delay Mitigation and Acceleration

- Proactive delay prevention and early risk detection Topic 1: •
- Designing acceleration and delay recovery techniques Topic 2: •
- Cost-benefit evaluation of mitigation strategies Topic 3: •
- Assessing acceleration impacts using project schedules Topic 4: •
- Communication and stakeholder management in mitigation Topic 5: •
- Case study: Mitigation strategies in highway expansion projects Topic 6: •
- Reflection on proactive delay management and recovery Reflection & Review: •



## Day 13: Reporting, Presentation, and Legal Defense

- Structuring comprehensive delay analysis reports Topic 1: •
- Presenting claims before legal and arbitration panels Topic 2: •
- Using forensic schedule analysis evidence effectively Topic 3: •
- Common errors in delay report presentation Topic 4: •
- Case precedents on report acceptance and rejection Topic 5: •
- Drafting executive summaries for delay claims Topic 6: •
- Reflection on clarity, transparency, and professionalism in reporting Reflection & Review: •

## Day 14: Integration, Capstone Project, and Review

- Integrating multiple delay analysis techniques in one report Topic 1: •
- Group exercise: Road and infrastructure project delay analysis Topic 2: •
- Preparing and presenting delay findings Topic 3: •
- Peer and expert review of project submissions Topic 4: •
- Ethical standards and best practices in delay analysis Topic 5: •
- Final summary and actionable implementation roadmap Topic 6: •
- Reflection on full-course integration and professional readiness Reflection & Review: •

## FAQ

### What specific qualifications are needed before enrolling?

A background in project management, construction, or contracts is preferred. Scheduling or claims experience will enhance understanding.

### How long is each day's session and total duration?

14 days 60-70 Each session lasts 4-5 hours, including interactive workshops and exercises. The total course spans .hours

### Does the course include practical software demonstrations?

Yes, participants will use MS Project and similar tools to perform delay analysis methods in construction and project scheduling and delay management exercises.

## How This Course is Different from Other Delay Analysis Programs

Unlike short or theory-only courses, this 14-day masterclass provides a structured, practice-oriented journey through all aspects of delay analysis in construction – technical, contractual, legal, and software-based. It incorporates the SCL Delay and Disruption Protocol, forensic schedule analysis, and MS Project demonstrations tailored to road and infrastructure delay management.



## فئات الدورات التدريبية



HR TRAINING & DEVELOPMENT

دورات إدارة و تطوير الموارد البشرية



دورات إدارة و تحليل البيانات ودورات علم البيانات



دورات إدارة الجودة وتطوير العمليات



الدورات التدريبية في مجال البيئة والاستدامة



دورات التسويق وإدارة علاقات العملاء وإدارة المبيعات



دورات التدريب القانوني والمشتريات والتعاقدات



دورات الاتصال الجماهيري و السياسات والعلاقات العامة



دورات النظم السيرياني ودورات تقنية المعلومات



دورات الصيانة ودورات المجالات الهندسية المتنوعة



دورات الصحة والسلامة والأمن المهني



دورات السكرتارية و إدارة المكاتب



دورات الحوكمة وإدارة المخاطر والامتثال



## فئات الدورات التدريبية



دورات معتمدة بشهادة CPD



دورات في مجالات القيادة والإدارة



دورات المهارات الشخصية وتطوير الذات



دورات المحاسبة و التمويل و دورات الإدارة  
الهائية



دورات مكتب إدارة المشاريع وإدارة المشاريع  
الرشيقية



دورات معتمدة من قبل هيئات دولية

## مدن التدريب



اسطنبول - تركيا



أمستردام - هولندا



أنقرة - تركيا



أثينا - اليونان



الرياض - المملكة العربية السعودية



الدوحة - قطر



الدار البيضاء - المغرب



الجبيل - المملكة العربية السعودية



باريس - فرنسا



المنامة - مملكة البحرين



الكويت - الكويت



القاهرة - مصر



براغ - جمهورية التشيك



بانكوك - تايلاند



بالي - جمهورية إندونيسيا



باكو - أذربيجان

## مدن التدريب



جاكرتا - جمهورية اندونيسيا



تبليسي - جورجيا



بوكيت - تايلاند



برشلونة - اسبانيا



روما - ايطاليا



دبي - الامارات العربية المتحدة



جوهانسبرغ - جنوب افريقيا



جنيف - سويسرا



شهر الشيخ - مصر



سيول - كوريا الجنوبية



سان دييغو - الولايات المتحدة  
الامريكية



زنبار - تنزانيا



طوكيو - اليابان



طشقند - اوزبكستان



طرابزون - تركيا



شيكاغو - الولايات المتحدة  
الامريكية

## مدن التدريب



كوالالمبور - ماليزيا



فيينا - النمسا



عن بعد - منصة زووم



عمان - المملكة الأردنية الهاشمية



ماربيا - اسبانيا



لندن - المملكة المتحدة



لانكاوي - ماليزيا



كيب تاون - جنوب إفريقيا



ميلان - إيطاليا



مونترنو - سويسرا



مسقط - سلطنة عمان



مدريد - إسبانيا



نيس - فرنسا



نيروبي - كينيا



ميونخ - ألمانيا

# WHO WE ARE

Agile Leaders is a renowned training center with a team of experienced experts in vocational training and development. With 20 years of industry experience, we are committed to helping executives and managers replace traditional practices with more effective and agile approaches.

## OUR VISION

We aspire to be the top choice training provider for organizations seeking to embrace agile business practices. As we progress towards our vision, our focus becomes increasingly customer-centric and agile.

## OUR MISSION

We are dedicated to developing value-adding, customer-centric agile training courses that deliver a clear return on investment. Guided by our core agile values, we ensure our training is actionable and impactful.

## WHAT DO WE OFFER

At Agile Leaders, we offer agile, bite-sized training courses that provide a real-life return on investment. Our courses focus on enhancing knowledge, improving skills, and changing attitudes. We achieve this through engaging and interactive training techniques, including Q&As, live discussions, games, and puzzles.



**AGILE LEADERS**  
Training Center

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