



# POWER BI

## FOR QUANTITY SURVEYORS & CONSTRUCTION PROFESSIONALS

Turn Your Data Into Decisions — Build Real Dashboards for Real Projects

Module 01: Power BI  
Foundations

Module 02: Data Modelling &  
DAX

Module 03: Construction  
Dashboards

Module 04: Live Projects &  
Sharing

4

Core  
Modules

30+

Topics  
Covered

10+

Real Construction  
Dashboards Built



*Empowering Built Environment Professionals*

POWER BI FOR  
QS & CONSTRUCTION



[www.aclacademysl.com](http://www.aclacademysl.com)



+94 76 313 6718



# ABOUT ACL ACADEMY

## WHO WE ARE

ACL Academy is a modern training platform dedicated to developing industry-ready professionals through practical, real-world learning in construction and the built environment. Founded by a Chartered professional with extensive Middle East experience, ACL Academy bridges the gap between academic knowledge and industry practice through hands-on training, real project scenarios, and digital workflows.

## OUR VISION

To become a leading global platform that transforms built environment professionals by integrating real industry practice with advanced digital and AI-driven solutions.

## OUR MISSION

To equip students and professionals with practical, job-ready skills across the built environment by delivering training that reflects real project environments, enhanced with modern tools, digital workflows, and Artificial Intelligence.

## WHY CHOOSE ACL ACADEMY?

### Industry Experts in the Lecture Room

Every module is delivered by active construction professionals with real world experience — not academics reading from textbooks.

### Practical, Project-Based Learning

You work through real documents, real BOQs, real payment applications and real contract scenarios drawn from live construction projects.

### Specific Contract Knowledge

Full coverage of FIDIC, NEC and JCT contracts, procurement practices, and the commercial structures used by leading regional developers.

### Interview & Career Preparation

The programme concludes with dedicated interview coaching and a live mock interview session - so you leave job-ready, not just course-complete.

### RICS-Aligned Training Standards

Course content, competency framework, and assessment approach are designed to align with RICS professional standards and APC competency requirements.

### Trusted by Professionals Across the Gulf

Our graduates are working as QS professionals across the UAE, Saudi Arabia, Qatar, Kuwait, Bahrain, Oman, and Sri Lanka.



# MEET YOUR LECTURER

IA

## IRSATH ALI

Senior Data & AI Scientist

Lecturer at NIBM & IIT Sri Lanka

12+ Years Industry Experience

Senior Data & AI Scientist

Lecturer — NIBM & IIT Sri Lanka

Machine Learning & AI Strategy

Power BI & Business Intelligence

12+

Yrs Exp

100+

Trained

AI+BI

Specialisation

## ABOUT THE LECTURER

Irsath Ali is an elite Senior Data & AI Scientist and academic with over 12 years of trailblazing industry experience spanning data science, machine learning, and corporate AI strategy. As an active lecturer at top-tier institutes including NIBM and IIT Sri Lanka, Irsath has trained hundreds of professionals and students, mastering the art of breaking down highly complex systems into actionable business intelligence.

A recognised expert in Artificial Intelligence and Power BI, Irsath specialises in deploying machine learning models and creating sophisticated, data-driven dashboards that transform corporate decision-making. His sessions equip professionals with the exact tools — ranging from Python automation to advanced Power BI analytics — needed to lead the AI transformation across modern industries.

## KEY AREAS OF EXPERTISE

- |                                    |                                     |
|------------------------------------|-------------------------------------|
| ◆ Data Science & Machine Learning  | ◆ Power BI Advanced Analytics       |
| ◆ Artificial Intelligence Strategy | ◆ Python Automation                 |
| ◆ Corporate Business Intelligence  | ◆ Interactive Dashboard Development |
| ◆ Academic Lecturing (NIBM & IIT)  | ◆ AI-Driven Decision Making         |



# ABOUT THIS TRAINING

*Power BI for Quantity Surveyors & Construction Professionals*

## Your Data Is Already There - Now Make It Work for You

Every construction project generates enormous amounts of data - BOQs, payment applications, variation logs, subcontractor accounts, cost reports, programme updates, and more. But most of this data sits in Excel spreadsheets, untouched and unanalysed. Power BI transforms this raw data into live, interactive dashboards that give project teams, QS professionals, and commercial managers the real-time insight they need to make better decisions, control costs, and report with confidence.

**4**

Core Training  
Modules

**30+**

Topics  
Covered

**10+**

Real Construction  
Dashboards Built

**01**

### Built for Construction — Not Generic Training

Every topic, every exercise, and every dashboard in this training is built around real construction and QS data. You will not be working with sales figures or marketing metrics that you will be building cost reports, payment trackers, and project dashboards that you can take directly into your working environment.

**02**

### No Coding. No IT Background Required.

Power BI is a visual, drag-and-drop business intelligence tool. This training assumes no prior programming knowledge. If you can use Excel, you can learn Power BI. Our step-by-step approach takes you from the basics of connecting data all the way to publishing professional-grade interactive dashboards.

**03**

### Practical Outcome from Day One

From Module 01, you are building real dashboards. By the end of the training, you will have a complete portfolio of construction-specific Power BI reports — Cost Control Dashboard, Payment Application Tracker, BOQ Analysis, CVR Report, and Project Progress Dashboard — ready to use on your projects.



# MODULE 01

## POWER BI FOUNDATIONS — Getting Started with Construction Data

8 Topics

Module 01 introduces Power BI Desktop, Service, and Mobile, covering data connection, Power Query transformation, relationship modelling, and building your first professional construction reports from real QS data - no prior Power BI experience required. By the end of this module, you will be able to build, format, and publish interactive dashboards ready to share with project teams and stakeholders.

01 Introduction to Power BI

02 Connecting to Construction Data

03 Power Query — Cleaning Your Data

04 Understanding Tables & Relationships

05 Building Your First Visuals

06 Filters, Slicers & Interactivity

07 Creating Your First Report Page

08 Publishing to Power BI Service



# MODULE 02

## DATA MODELLING & DAX — Calculations That Drive QS Decisions

8 Topics

Module 02 covers the analytical engine behind Power BI teaching you how to build star-schema data models and write DAX formulas for the key QS calculations: cost variance, earned value, cumulative payments, retention schedules, and subcontractor account reconciliation. By the end of this module, you will have the calculation foundation needed to power every construction dashboard built in Module 03.

01 Star Schema Data Modelling

02 DAX Fundamentals

03 Key QS Measures

04 Cost Variance & Earned Value

05 Cumulative & Time Intelligence

06 Payment & Cash Flow Calculations

07 Subcontractor Account Measures

08 Dynamic Reporting with Parameters

Module 03 is the centrepiece of the training, every dashboard is built from scratch using real construction project data, covering cost report, payment tracking, BOQ analysis, CVR reporting, variation management, subcontractor accounts, and project progress reporting. By the end of this module, you will leave with a complete portfolio of professional Power BI dashboards ready to use in your QS or project management role.

01 Cost Report Dashboard

02 Payment Application Tracker

03 BOQ Analysis Dashboard

04 Cost Value Reconciliation (CVR)

05 Variation & Claims Log

06 Subcontractor Account Dashboard

07 Project Progress Dashboard



# MODULE 04

## ADVANCED FEATURES, LIVE PROJECTS & SHARING YOUR WORK

7 Topics

Module 04 covers advanced Power BI features, live data refresh, mobile optimisation, Excel and SharePoint integration, and a complete end-to-end live project capstone exercise, putting everything together into a professional, shareable construction analytics report. By the end of this training, you will have built 7+ working dashboards from real construction data and the skills to build any report your project or employer needs.

01 Advanced Visualisations

02 Conditional Formatting & KPIs

03 Scheduled Refresh & Live Data

04 Sharing, Workspaces & Security

05 Power BI Mobile

06 Integrating with Excel & SharePoint

07 Live Project Capstone Exercise

**START TURNING DATA INTO DECISIONS**

 **Enroll Now** | [aclacademysl.com](http://aclacademysl.com) | +94 76 313 6718