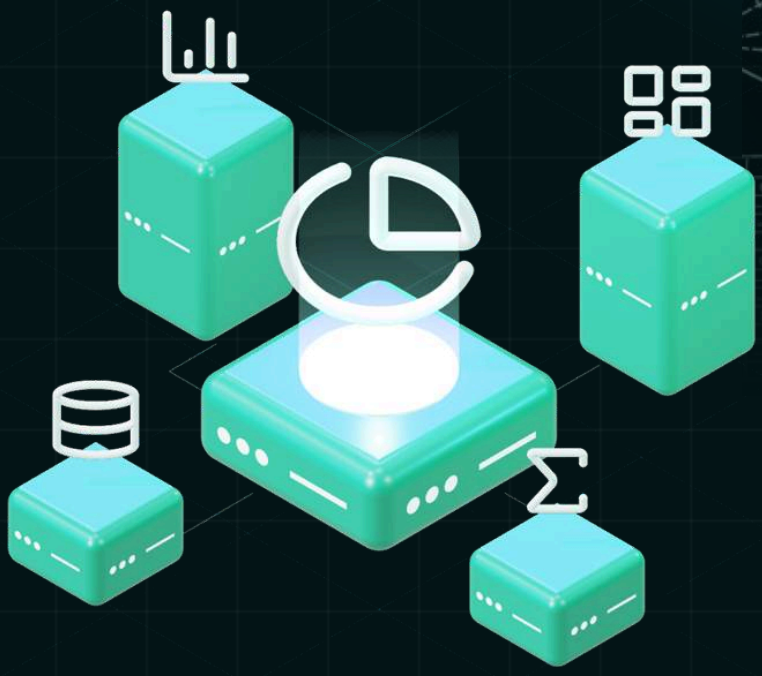
samcommunity.in

✦ DATA SCIENCE & ANALYTICS · INTERMEDIATE

Power BI — Data Visualization

Dashboards that tell the story.



48
HOURS

8
MODULES

SAM-PBI
CERTIFICATION

SAMCOMMUNITY ACADEMY

academy@samcommunity.in

samcommunity.in

✦ INSIDE THIS BROCHURE

Contents

Program overview 03

Who it's for 04

Learning outcomes 05

Program runway 06

Detailed curriculum 07

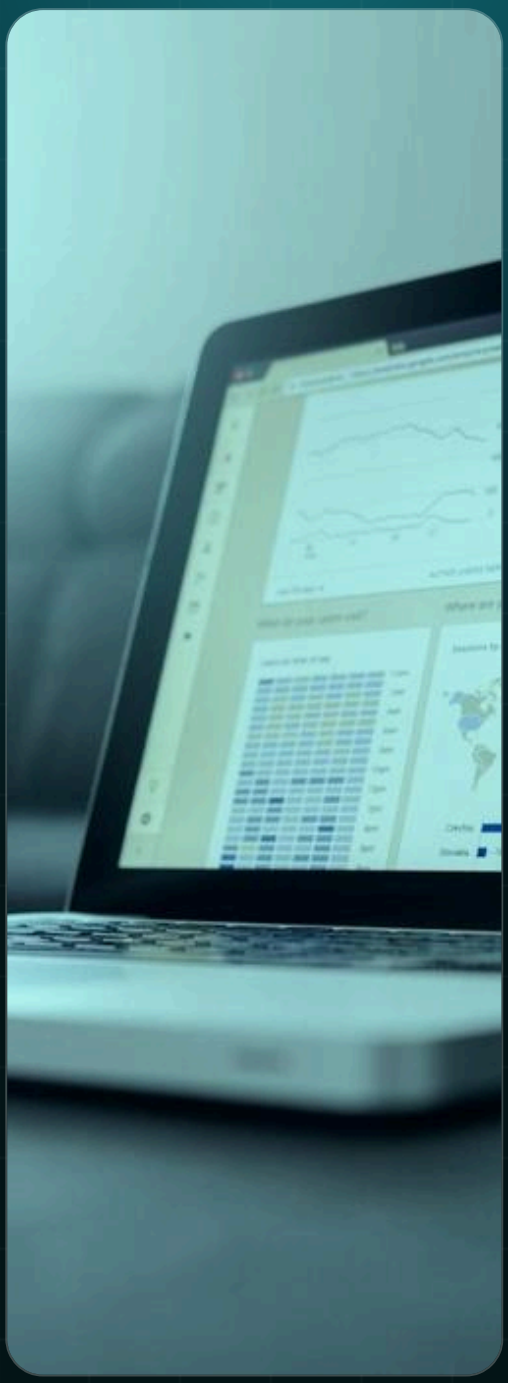
Focus areas 10

Projects & capstone 11

Certification & method 12

Learning path 13

FAQs 14

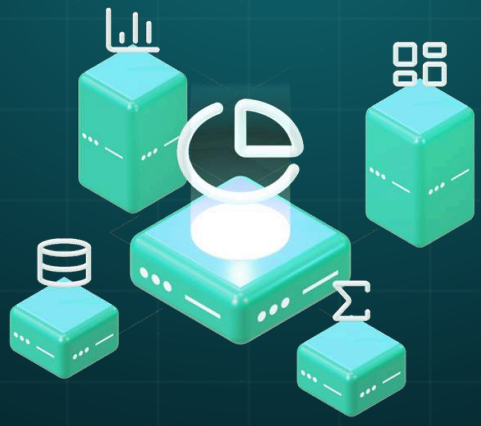


AT A GLANCE

Level	Intermediate
Duration	48 Hours
Modules	8
Certificate	SAM-PBI

✦ PROGRAM OVERVIEW

Dashboards that tell the story.



Build interactive dashboards and reports that turn raw data into clear business insight.

Teams need dashboards that are accurate, fast and easy to understand, not just attractive charts. This intermediate program covers the full Power BI workflow: preparing data with Power Query, building star-schema models, writing DAX measures, designing interactive reports, and publishing, securing and refreshing content in the Power BI Service within Microsoft Fabric.

LEVEL	DURATION	CERTIFICATION	DELIVERY
Intermediate	48 Hours	SAM-PBI	ILT · VILT · Blended



✦ WHAT YOU'LL PRACTISE

Connect and model data	01
Write DAX measures	02
Design interactive dashboards	03
Publish and share reports	04

✦ WHO IT'S FOR

Built for people ready to grow.

01

Business professionals

Data literacy, Excel and SQL foundations

02

Analysts

Power BI, Tableau and Python for analysis

03

Data engineers

Pipelines with Spark, Kafka and Airflow

04

Data scientists & architects

ML, NLP, computer vision and platform design

PREREQUISITES

Comfort with Excel and basic data concepts	01
Basic SQL knowledge is helpful	02
Windows PC for Power BI Desktop	03

ROLES YOU CAN TARGET

- Power BI Developer ↗
- BI Analyst ↗
- Data Analyst ↗
- Reporting Analyst ↗
- MIS and Dashboard Specialist ↗

✦ LEARNING OUTCOMES

What you'll be able to do.

01 Connect, clean and transform data using Power Query

02 Design star-schema data models with correct relationships

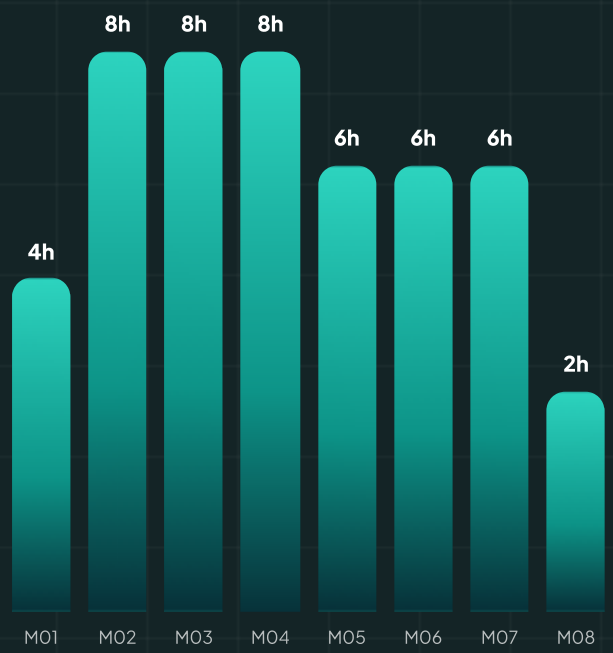
03 Write DAX measures including time intelligence calculations

04 Design interactive, accessible reports and dashboards

05 Publish, share and schedule refresh in Power BI Service

06 Implement row-level security and basic governance

HOURS PER MODULE



✦ PROGRAM RUNWAY

Your journey, module by module.

8
MODULES · 48 HRS

01	**Power BI Foundations** Power BI Desktop, Service and Mobile, Power BI within Microsoft Fabric, Report building workflow	4 hrs
02	**Data Preparation with Power Query** Profiling and cleaning data, Transforming columns and types, Merging and appending queries	8 hrs
03	**Data Modelling** Star schema design, Fact and dimension tables, Relationships and cardinality	8 hrs
04	**DAX Fundamentals** Calculated columns vs measures, SUM, COUNTROWS and DIVIDE, CALCULATE and filter context	8 hrs
05	**Advanced DAX and Time Intelligence** YTD, QTD and MTD, Same period last year, Rolling averages	6 hrs
06	**Report Design and Storytelling** Choosing effective visuals, Layout, themes and accessibility, Slicers, drill-through and bookmarks	6 hrs
07	**Power BI Service and Governance** Workspaces and apps, Sharing and permissions, Gateways and scheduled refresh	6 hrs
08	**Advanced Features and Performance** Performance Analyzer, Incremental refresh basics, Aggregations and composite models	2 hrs
★	**Capstone · End-to-End Business Intelligence Solution** Assessment, capstone review and certification	

✦ DETAILED CURRICULUM

The syllabus.

Modules 01–03

MODULE 01

Power BI Foundations

4 hours

Hands-on lab
Connect to sample sales data and build a first interactive report.

TOPICS COVERED

- Power BI Desktop, Service and Mobile
- Power BI within Microsoft Fabric
- Report building workflow
- Connecting to data sources
- Import vs DirectQuery

MODULE 02

Data Preparation with Power Query

8 hours

Hands-on lab
Clean and combine messy regional sales files into model-ready tables.

TOPICS COVERED

- Profiling and cleaning data
- Transforming columns and types
- Merging and appending queries
- Unpivoting and reshaping
- Parameters and query folding
- M language basics

MODULE 03

Data Modelling

8 hours

Hands-on lab
Build a star-schema model for sales with a dedicated date table.

TOPICS COVERED

- Star schema design
- Fact and dimension tables
- Relationships and cardinality
- Filter direction
- Date tables
- Model performance best practices



LEARN BY DOING

8 guided labs, one in every module.

✦ DETAILED CURRICULUM

Syllabus, continued.

Modules 04–06

MODULE 04

DAX Fundamentals

8 hours

Hands-on lab
Create core KPIs such as revenue, margin and average order value.

TOPICS COVERED

- Calculated columns vs measures
- SUM, COUNTROWS and DIVIDE
- CALCULATE and filter context
- Row context and iterators
- Variables in DAX
- FILTER and ALL functions

MODULE 05

Advanced DAX and Time Intelligence

6 hours

Hands-on lab
Build year-over-year growth and rolling three-month average measures for sales.

TOPICS COVERED

- YTD, QTD and MTD
- Same period last year
- Rolling averages
- Ranking with RANKX
- Calculation groups overview
- Debugging with DAX query view

MODULE 06

Report Design and Storytelling

6 hours

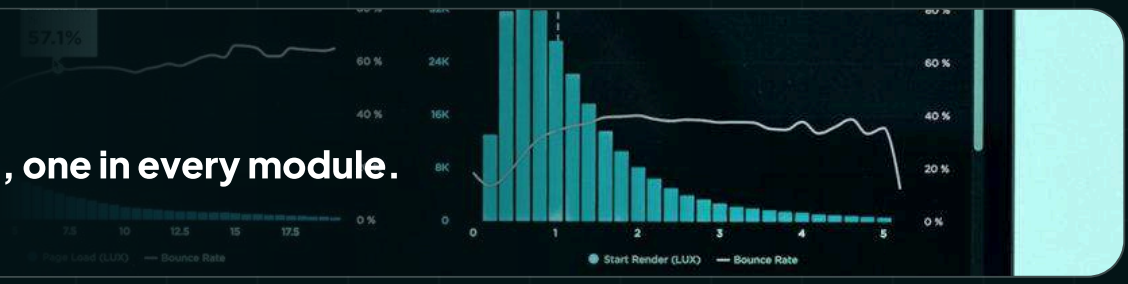
Hands-on lab
Design a management dashboard with drill-through and bookmark navigation.

TOPICS COVERED

- Choosing effective visuals
- Layout, themes and accessibility
- Slicers, drill-through and bookmarks
- Tooltips and field parameters
- Mobile layouts
- Storytelling with data

LEARN BY DOING

8 guided labs, one in every module.



✦ DETAILED CURRICULUM

Syllabus, continued.

Modules 07–08

MODULE 07

Power BI Service and Governance

6 hours

Hands-on lab
Publish a report, configure refresh and apply row-level security by region.

TOPICS COVERED

- Workspaces and apps
- Sharing and permissions
- Gateways and scheduled refresh
- Row-level security
- Sensitivity labels and endorsement
- Usage metrics

MODULE 08

Advanced Features and Performance

2 hours

Hands-on lab
Diagnose and improve a slow report page using Performance Analyzer.

TOPICS COVERED

- Performance Analyzer
- Incremental refresh basics
- Aggregations and composite models
- Deployment pipelines overview
- Copilot in Power BI overview



CAPSTONE

End-to-End Business Intelligence Solution

✦ YOUR STACK

Focus areas.

Real platforms and frameworks — the same stack modern teams ship with, practised in cloud-hosted labs.

- Connect and model data
- Write DAX measures
- Design interactive dashboards
- Publish and share reports



LAB ACCESS

24×7 cloud labs for the length of the program

✦ HANDS-ON WORK

Projects that prove you can do it.

01

Sales Performance Dashboard

Model sales data in a star schema and build KPIs, trends and regional drill-downs for a sales leadership team.

02

Finance P&L Report

Create a profit and loss report with time intelligence, variance analysis and clear formatting for finance users.

03

HR Analytics Report

Analyse headcount, attrition and hiring trends with interactive filters and row-level security restricting data by department.

CAPSTONE PROJECT

End-to-End Business Intelligence Solution

Take raw multi-source data through Power Query, a star-schema model and DAX measures to a polished multi-page report, then publish it to the Power BI Service with scheduled refresh, row-level security and a short stakeholder walkthrough.

Real-world scenario | Mentor review | Portfolio ready



CERTIFICATION

SAM-PBI

Awarded on successful completion of the program assessments.

- MCQ assessments
- Practical lab evaluation
- Project & capstone review
- Final presentation



✦ HOW YOU LEARN

The SAM Learning Framework™

PHASE 01

S

Scenario

Real-world attack and use-case scenarios open every module.

PHASE 02

A

Apply

Hands-on lab work, CTF challenges and live projects.

PHASE 03

M

Master

Assessment, peer review and certification prep.

PHASE 04

M

Mentor

Post-program career guidance and support.

DELIVERY MODELS

- Instructor-Led (ILT)
- Virtual Instructor-Led
- Self-Paced Online
- E-Learning Licensing
- Blended Learning
- Corporate Onsite
- Bootcamp Intensive
- Hackathon / CTF
- Mentorship

✦ LEARNING PATH · DATA SCIENCE & ANALYTICS

Where this program fits.

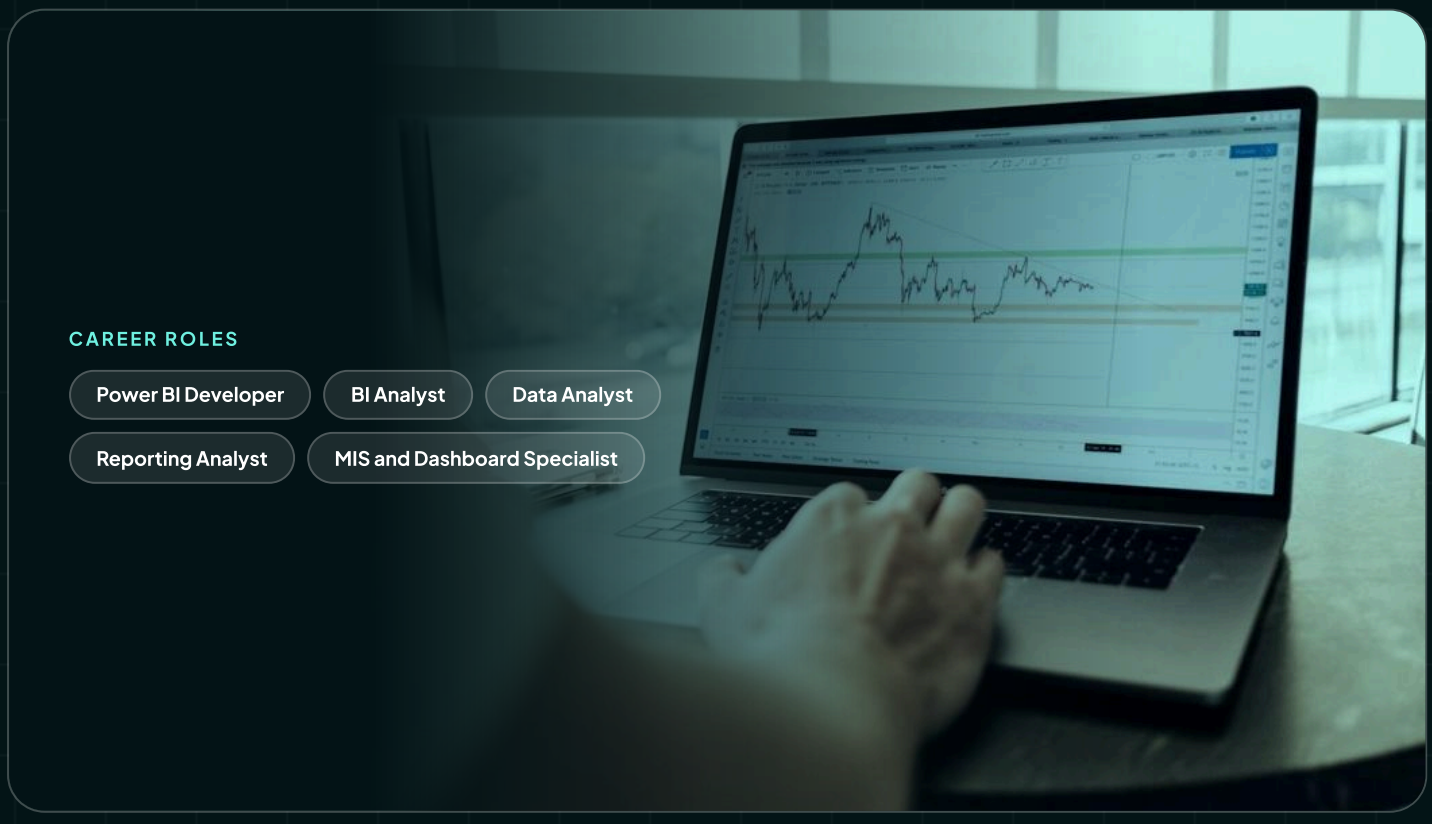
Beginner	Intermediate	Advanced	Expert
3 programs	You are here	4 programs	2 programs

BEFORE THIS

Data Literacy for Business Professionals	16 Hours
Excel for Data Analysis	24 Hours
SQL for Data Analysts	40 Hours

UP NEXT

Advanced Data Engineering (Spark/Kafka/Airflow)	96 Hours
Machine Learning for Data Scientists	80 Hours
NLP for Data Scientists	64 Hours
Computer Vision	64 Hours



CAREER ROLES

- Power BI Developer
- BI Analyst
- Data Analyst
- Reporting Analyst
- MIS and Dashboard Specialist

✦ FAQS

Questions, answered.

Q01

Do I need prior experience?

You should be comfortable with Excel and basic data concepts. Prior Power BI experience is not required. Basic SQL knowledge helps with data sources but is not mandatory for completing the program.

Q02

How are classes scheduled and delivered?

Sessions are instructor-led and run as live virtual or blended batches, with weekday and weekend options where available. Sessions combine demonstrations with hands-on report building, and practice files are shared after every module.

Q03

Will I receive a certificate?

Yes. Learners who complete the required labs, projects and final assessment receive the Samcommunity Academy SAM-PBI certificate. It recognises the practical skills you demonstrated during the program rather than attendance alone.

Q04

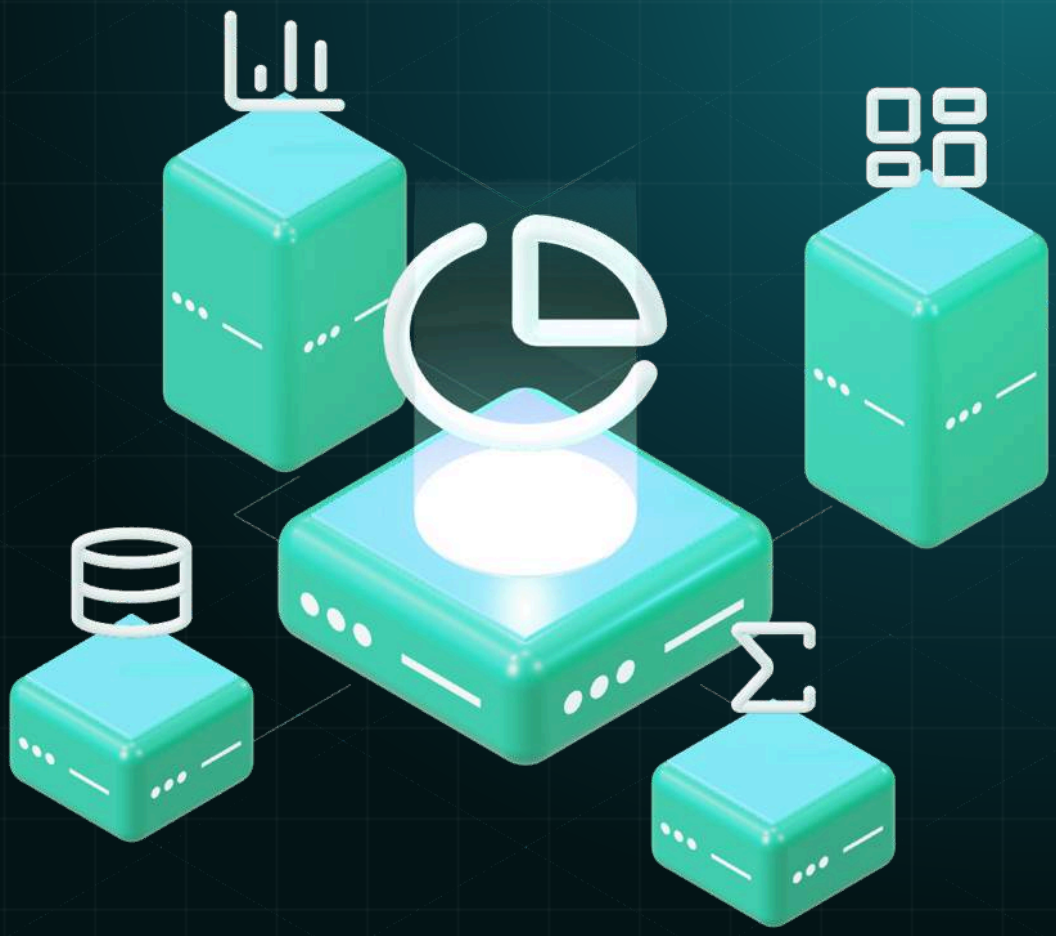
How do I access labs and tools?

You need Power BI Desktop, which is free and runs on Windows. Mac users can use a Windows virtual machine or cloud PC. Sample datasets are provided, and Power BI Service access options are explained during the program.

Q05

Is career support included?

You get guidance on portfolio projects, resume positioning and interview preparation for relevant roles. Your dashboards can be added to a portfolio for BI and analyst roles. We do not guarantee jobs, placements or salaries.



✦ LET'S TALK

Start Power BI — Data Visualization with Samcommunity.

INDIVIDUALS

academy@samcommunity.in

Batches, enrolment & career guidance

CORPORATE & INSTITUTIONS

corporate@samcommunity.in

Team batches & custom programs

Xylyn Samcommunity Private Limited · DPIIT-recognized startup · Surat, Gujarat, India