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**Swiss Agency for Development
and Cooperation SDC**

Power BI Online Training

Power BI ဆိုသည်မှာ

The video file and other learning materials can
also be downloaded through the MIMU website.
<https://themimu.info/training-resources/home>

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Introduction

Objective

This course has been developed by the Myanmar Information Management Unit / MIMU to support the information management needs of those engaged in humanitarian, development and peace-focused activities across Myanmar for analysis and decision-making.

This product has been prepared for operational purposes only, to support humanitarian and development activities in Myanmar. The data used for these training products is sample data and may not reflect the actual situation. Place names are from the General Administration Department, Ministry of Home Affairs. The MIMU and the United Nations cannot be held responsible for any errors or omissions in this product, nor for any misuse or misinterpretation of any information.

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Contact We welcome your feedback and comments through info.mimu@undp.org

Power BI ဆိုတာ ဘာလဲ

- BI stands for Business Intelligence
- Business Analytics Service of Microsoft
- Power BI Desktop Free
- Integrate with Office 365
- Connect, Transform, Analytics, Visualize, Share
- And many other developer options...

Power BI History

2010 : originally conceived by Thierry D'Hers and Amir Netz of the SQL Server Reporting Services Team at Microsoft

2010 : Project Crescent , designed by Ron George

2011 : Initially available for public download bundled with SQL Server Codename Denali.

2013 : Later renamed to Power BI for Office 365

based on the [Microsoft Excel](#)–based add-ins: Power Query, [Power Pivot](#) and Power View

2015 : Power BI was first released to the general public



Power BI ကိုဘယ်သူတွေသုံးမလဲ

- First of their aim was Business Users
- Later it was widely use by General Public for Reporting and Data Analytics
- Office365 Users
- Power BI Service use by work email for free

Power BI Eco System

Core, Power BI
Specific

Core, Non-Power
BI Specific

Non Core, Power
BI Specific

Natively Integrated
Microsoft
Technology

The Extended
Power BI Eco
System

Core, Power BI Specific

Power BI Desktop

- Free
- Support only Windows

Power BI Service

- Work Email
- Software as a Service
- Originally Power BI for Office 365
- Some data sources can directly connect from Power BI Service

Core, non-Power BI Specific

Power Query

- Microsoft Technology to connect data and transformation
- 100 different sources and transformation without code
- Also can get as a software

Data Analysis Expressions (DAX)

- Programming language
- Functions, operators and constants to write formulas
- Similar to Excel Functions
- DAX is power BI Equivariant

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Core, non-Power BI Specific

On-premises data gateway

- Gateway make access local data sources to Power BI service
- Personal Mode – Only Can Use with Power BI
- Enterprise Mode – Can use with Microsoft Flow, Power Apps...

SSAS (Tabular)

- In memory-database
- Model the data with relational constructs such as Table and Relationships

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Core, non-Power BI Specific

Microsoft App Source

- Marketplace for finding apps, add-ins and extensions...
- Custom visuals can available up there

Non-core, Power BI Specific

Power BI Report Server

- On premise technology
- Superset of SSRS

Power BI Embedded

- REST APIs
- To display visualization, reports, and dashboards
- Often used by Independent Software Vendors

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Non-core, Power BI Specific

Power BI Mobile Applications

- Native Android, iOS and Windows phones
- Able to view the reports which published to Power BI Service

Power BI for mixed reality

- Based on Power BI Mobile app
- Designed to work with HoloLens

Natively Integrated Microsoft Technologies



Office 365



Excel



Microsoft Flow



PowerApps



SharePoint



Azure ML
Technologies

The Extended Power BI Technologies

APIs SDKs

Python

R

SVG

Power BI License

Power BI Free (Desktop is free, Service can register with work mail)

- 1GB for Dataset, 10GB for All – Eight Refresh Per day 30 minute interval

Power BI Pro (\$9.99 per month)

- Capacity is same as Free except on premise gateway available
- Power BI Premium, Embedded, and Report Server still need account for each users

Power BI Premium

- (Capacity based, monthly) (From \$5000 to \$80,000)

Power BI Embedded

- (For Developer, hourly) (From \$750 to \$24000)

Power BI Report Server

- (\$4000 - \$7000 percore)

DAX vs Power Query M

Power Query

- Importing, Transforming, Shaping
- Pipeline Use

DAX

- Data Analysis
- Row Level Security
- Similar to Excel Formula



Power BI Minimum Requirements for Hardware

- Windows 8.1 / Windows Server 2012 R2, or later
- .NET 4.6.2 or later
- Internet Explorer 11 or later
- Memory (RAM): At least 2 GB available, 4 GB or more recommended.
- Display: At least 1440x900 or 1600x900 (16:9) required. Lower resolutions such as 1024x768 or 1280x800 aren't supported, as certain controls (such as closing the startup screen) display beyond those resolutions.
- Windows display settings: If you set your display settings to change the size of text, apps, and other items to more than 100%, you may not be able to see certain dialogs that you must interact with to continue using Power BI Desktop. If you encounter this issue, check your display settings in Windows by going to Settings > System > Display, and use the slider to return display settings to 100%.
- CPU: 1 gigahertz (GHz) 64-bit (x64) processor or better recommended.