

**ITM067 : Business Intelligence (BI) Using Pentaho****เนื้อหาหลักสูตร :**

- Introduction to BI and Dimensional Modeling
  - Basic Architecture of PentahoIntroduction to Pentaho BI Suite
  - Pentaho BI Suite Components
  - PDI,Metadata Editor, Schema Work bench, Report Designer, Design Studio
  - Dealing with repository
  - Importance of repository and its usage
  - Creating a repository
  - Types of repositories and their specific usage
  - Taking the backup of repository Restoring the repository
- Dealing with Transformations
  - Creating simple transformations
  - Saving the transformation to the repository
  - Executing the transformation
- Understanding Steps In Detail
  - Use of various input steps
  - Use of various output steps
  - Use of various transformation steps
  - Use of Joins
  - Flow controls available in PDI
  - Lookup data at various sources
  - Data Validation
  - Mappings, Regular Expression
- Creating jobs
  - Executing transformation using jobs
  - Passing and retrieving data to/from the transformations.
  - Conditional execution of jobs
  - Pre-execution Validation with job.
  - File management through Jobs
- Dealing with Variables
  - Creating and using variables within transformation/job
  - How to create variables and how to use them in transformations
  - Where to use variables
  - Scope of variables
- Dealing with Parameters
  - Creating and using parameters
  - System parameters
  - User defined parameters
- Scheduling of job/transformation
  - Running & debugging of jobs
  - Transformation,Storing Log Information into log tables
  - SCD, CDC implementation
- Pentaho Reporting
  - Using the Report Wizard
  - Navigating Report Designer
  - Connecting to a Data Source and Writing a Query
  - Creating data source connection(JDBC/JNDI/XML/OLAP/PDI)
  - Report Template
  - Report Formatting
  - Create a report using different types of database connection
  - Create a report using Pentaho OLAP Cube
  - Adding Data Elements and Creating Report Groups

- Creating Totals
- Create Group and Report Totals
- Creating the Report Header and Footer
- Formatting the Report
- Use of formula
- Applying Conditional Formatting
- Conditional Formatting of Row
- Conditional Formatting
- Parameter Creation
- Adding Report Parameters
- Hyperlinking Reports
- Add a Parameter and Hyperlink
- Create the Report Header and Footer, Format
- User Level Security
- Creating Charts and Sub-Reports
- Create a Report with Multiple Sub-Reports
- Publishing the Report, and Publish the Report
- Using Resource Files in Report Designer
- Viewing Sample Reports
- Pentaho Dashboards
  - Introduction to Pentaho BI Server and Pentaho Enterprise Server
  - Create a DATASOURCE at BI Serer
  - Create Simple Pentaho Dashboard using Pentaho Dashboard Designer.
  - Create a drill down dashboard
- Pentaho Cubes
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  - Create a DATASOURCE at BI Serer
  - Create Simple Pentaho Dashboard using Pentaho Dashboard Designer.
  - Create a drill down dashboard
- Installing the Pentaho BI Suite
  - Configuring the Pentaho BI Suite After Installation
  - Introducing the Pentaho User Console and Analysis Tools
  - Customizing the User Console
  - Using the Pentaho Administrative
  - Using Data Sources
  - Data Integration Server Overview
  - Creating jobs and transformations in Data Integration

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- วิทยากรประจำสถาบันวิทยาการ สวทช.
- Microsoft Certified Professional (MCP)

**จำนวนชั่วโมงในการฝึกอบรม : 5 วัน (30 ชั่วโมง)****ช่วงเวลาฝึกอบรม : 9.00 - 16.00 น.**

**สถานที่ฝึกอบรม :**

สถาบันวิทยาการ สวทช.  
เลขที่ 73/1 อาคารสำนักงานพัฒนาวิทยาศาสตร์และเทคโนโลยีแห่งชาติ (สวทช.)  
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