



**DATA ENGINEER
FUNDAMENTAL PROGRAM**

DOCUMENT INFORMATION

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COURSE DESCRIPTION

CELERATES will provides:

- Trainer and Asst. Trainer;
- Completion Certificate;
- Material;
- Test Case;
- Mini Project;
- Course Result per participant;

AUDIENCE:

Jdata Engineer Bootcamp (Level Fundamental).

course is designed for the beginner to intermediate and advance. It is for anyone who works with data - regardless of technical or analytical background. This course helps you understand and use the important concepts and techniques in analytics, logics and data knowledge and skill.

DURATION:

Day : 3 (three) months;
Time : 4-5 hours per day;
ToC : starting time and area to be discussed.

PREREQUISITES:

- According to Client requirements;
- Pass 3x Phase (Selection Spurring, Bootcamp Evaluation, and Placement Probation).

COURSE OUTLINE CELERATES SCHOOL DATA ENGINEER

SESSION	CHAPTER	TOPIC	SUB TOPIC
1	1	Project Management	<ul style="list-style-type: none"> a. SDLC; b. Waterfall; c. Scrum; d. Technical Documentation
	2	Database	<ul style="list-style-type: none"> a. Installation and Configuration b. Data Types c. ERD d. PostgreSQL e. DML DDL f. Join g. Tuning
2	1	Python for Data Analytics	<ul style="list-style-type: none"> a. Python Fundamental b. Numphy c. Matplotlib d. Pandas e. Data Types f. Cleansing Data g. SKLearn, ML in Python
	2	Data Warehouse	<ul style="list-style-type: none"> a. What is Data Warehouse b. Design c. Modeling d. Implementation
3	1	ETL	<ul style="list-style-type: none"> a. Installation & Configuration b. What is ETL ? c. Data IntegrationI Perspective d. Manage Repository e. Data Integration Development f. Transformation & Job
	2	Big Data & Cloud Technology	<ul style="list-style-type: none"> a. Data Engineering & Hadoop Ecosystem b. Apache Spark, Apache Beam c. Hive d. NoSQL, Cassandra e. Apache Kafka f. Airflow
4	1	Statistic	<ul style="list-style-type: none"> a. Statistic Intro b. Sampling c. How to Lie with Statistic