

a. Data Analytics and Management

Data forms the backbone of I4.0 and a robust data governance and management framework is required for any organization, including land transport industry. Data analytics helps businesses in optimizing performance and allow for better decision making leading to productivity improvements and cost savings. Data is also an enabler for other core technologies such as Artificial Intelligence and predictive maintenance which relies heavily on data as foundation for its learning algorithms.

In the land transport industry, data-driven work such as providing inputs for collecting the right type of data, modelling, developing algorithms, synthesizing, and interpreting data with the assistance of visualization tools will be required as manual inspection works are expected to reduce with the use of robots and software. Mobilized manhours will shift from labour intensive tasks to value-added work such as process improvement and preventive maintenance.

Hence, an emerging role from this area, would be a Data Analyst/ Data Engineer with the following persona for illustration.

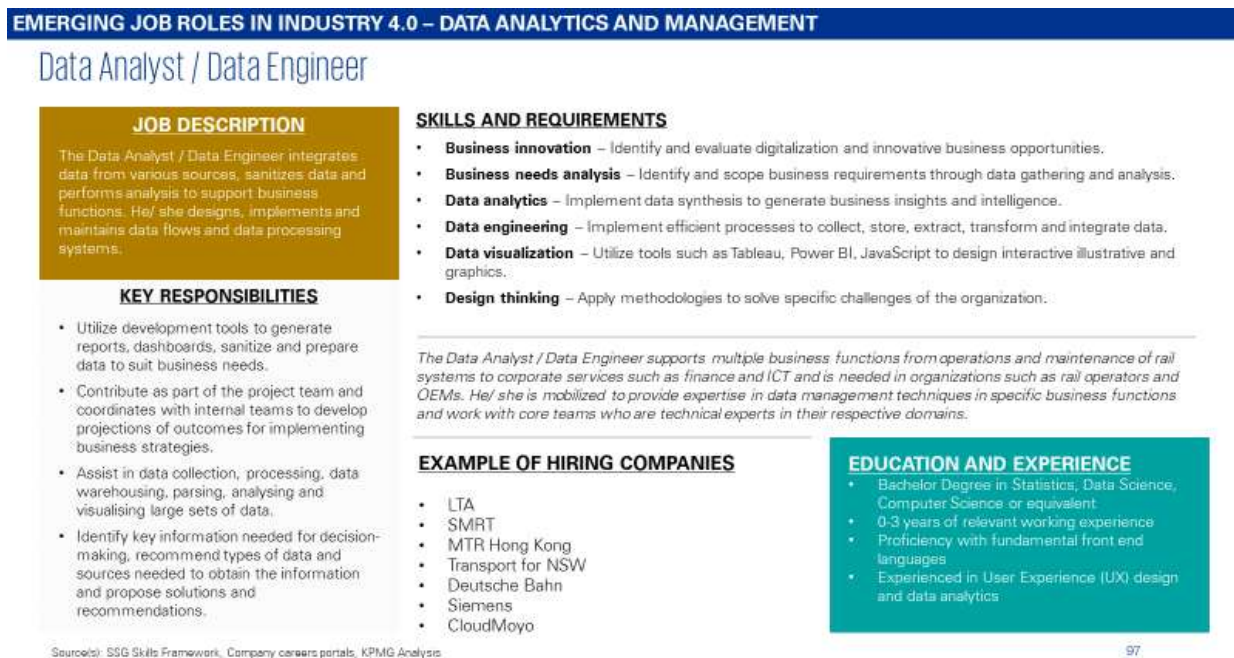


Figure 13 Data Analyst/ Data Engineer Persona