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| **Microcredential 6: Data Literacy** |
| **Microcredential outline**  Data literacy is the basic ability to read, understand and represent data in a given context. It also enables professionals to describe the use case, application and resulting value and communicate to the stakeholders in a clear, appropriate way. Data literacy can be seen as learning to communicate in a new shared **language of data** and is now a core skill for any organization working with data.  *This microcredential introduces the learner into the world of data and basic concepts required to work in a data-minded organization, and can act as an on-ramp to further study in data science, analytics or statistics.* |
| **Key learning covered**  Learners will develop an understanding of:   * What data is and key characteristics of data * The most common statistics used to describe data * An understanding of uncertainty * Correlation vs causation * Some common errors and biases * Basic ways to visualise data * How to communicate a data set and **its relevance to different groups** * How different industries are using data? – use cases |
| **Prerequisite knowledge or skills**  Some professional experience and industry or organizational knowledge in the learner’s role are assumed.  Basic data manipulation with Excel or Python |
| **Learning outcomes**   * Demonstrate an understanding of key concepts in data literacy to a peer or colleague * Communicate key concepts and relevant information from a data set clearly to peers and stakeholders |
| **Assessment & evaluation**  Learners will work on an **individual project** in which they need to employ their newly-developed skills, concepts and terminology to understand, represent, and communicate a data set and its relevance to different groups of stakeholders in their organization. |

Other comments:

“Data Literacy – It must also include topics on ETL, data storage, concept of databases, data warehouses, data lakes etc. Introduction to data platforms (data clusters, cloud etc)” – this is not part of this subject but we have database fundamentals if people need it.