✓ **Congratulations! You passed!**
TO PASS 80% or higher

Keep Learning

GRADE
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Data Collection Opportunities

LATEST SUBMISSION GRADE

100%

1. Which of the following data types cannot be expressed as a number nor be measured?

1 / 1 point

○ Quantitative data

◉ Qualitative data

✓ **Correct**
Correct! Qualitative data cannot be expressed as a number nor be measured.

2. Let's say you have 25 employees in your organization. Is the number of employees an example of discrete or continuous data?

1 / 1 point

◉ Discrete data

○ Continuous data

✓ **Correct**
Correct! Discrete data are absolute values and cannot be divided like the number of employees in your organization.

3. Which of the following sensors can measure sound levels?

1 / 1 point

○ Light sensors

○ Biosensors

◉ Acoustic sensors

○ Radiation sensors

✓ **Correct**
Correct! Acoustic sensors like hydrophone measure sound levels.

4. You are assigned to lead the supply chain department in your organization. Your first task is to assess the organization's current inventory levels and provide projections on future inventory levels. Identify these types of analytics that help understand "what could happen?"

1 / 1 point

◉ Predictive analytics

○ Diagnostic analytics

○ Prescriptive analytics

○ Descriptive analytics

✓ **Correct**
Correct! Predictive analytics helps understand "what could happen?"

5. A good data collection strategy should outline what questions to answer using data analysis, what data is necessary to support these questions, and how to gather the essential data. True or false?

1 / 1 point

◉ True

○ False

✓ **Correct**
Correct! Data context, content, and collection plan make up a good data collection strategy.

6. You are tasked with reporting a robot's energy performance on your factory floor in real-time in Microsoft PowerBI. No user interaction feature is needed. Which of the following reports would you use?

1 / 1 point

◉ Live reports

○ Dynamic reports

○ Static reports

✓ **Correct**

Correct! Although live reports update continuously, they typically don't offer user interaction features.

7. Which of the following data collection dimensions asks if you can manage different types and formats of structured, semi-structured, and unstructured data?　　　**1 / 1 point**

○ Veracity

○ Volume

◉ Variety

✓ **Correct**

Correct! Variety asks can you manage different types and formats of structured, semi-structured, and unstructured data?

8. You are doing a scrap study on a particular production line with a Computer Numerical Control (CNC) machine. You assembled a database and visualized it for your team's review. Before presenting your work, what will be your checkpoints to ensure your data quality? Select all that apply.

1 / 1 point

☑ CNC network

✓ **Correct**
Correct! CNC network, should be a main data quality checkpoint. There are other correct answers.

☑ CNC data output

✓ **Correct**
Correct! CNC data output should be a main data quality checkpoint. There are other correct answers.

☑ CNC software

✓ **Correct**
Correct! CNC software should be a main data quality checkpoint. There are other correct answers.

☑ CNC hardware

✓ **Correct**
Correct! CNC router hardware should be a main data quality checkpoint. There are other correct answers.

9. Your organization has invested in an IoT implementation to collect, analyze, and control your factory's heating, ventilating, and cooling (HVAC) system for energy savings. One of your IT professionals suggested implementing data privacy and security measures, but your team thinks it is not essential. Which of the following is correct?

1 / 1 point

◉ Data privacy and security are essential.

○ Data privacy and security are not essential.

✓ **Correct**
Correct! Data privacy and security are essential. It protects the data against breach and cyber-attacks. Ultimately, it is to ensure there are no operational interruptions in the internet of things.

10. Your organization has decided to adopt data-driven decision frameworks. As the first step, your organization wants to start measuring some key performance indicators (KPIs), which add value to your organization. Which of the following high-level KPIs that are part of the golden KPI triangle would you suggest?

1 / 1 point

○ Cost, on-time delivery and person-hours for production.

◉ Quality, cost and on-time delivery.

○ On-time delivery, quality, and scrap.

✓ **Correct**
Correct! Quality, cost, and on-time delivery form the basis of a golden KPI triangle, which measures the high-level value-add to any organization.