The data analysis process and this program

How the data analysis process guides this program

Ask — 1
- Ask effective questions
- Define the problem
- Use structured thinking
- Communicate with others

Prepare — 2
- Understand how data is generated and collected
- Identify and use different data formats, types, and structures
- Make sure data is unbiased and credible
- Organize and protect data

Process — 3
- Create and transform data
- Maintain data integrity
- Test data
- Clean data
- Verify and report on cleaning results

Analyze — 4
- Use tools to format and transform data
- Sort and filter data
- Identify patterns and draw conclusions
- Make predictions and recommendations
- Make data-driven decisions

Share — 5
- Understand visualization
- Create effective visuals
- Bring data to life
- Use data storytelling
- Communicate to help others understand results

Act — 6
- Apply your insights
- Solve problems
- Make decisions
- Create something new

Learn about the process through the program

1. Learn more about the **Ask** phase of the process in the Ask Questions to Make Data-Driven Decisions course.

2. Learn more about the **Prepare** phase of the process in the Prepare Data for Exploration course.

3. Learn more about the **Process** phase of the process in the Process Data from Dirty to Clean course.

4. Learn more about the **Analyze** phase of the process in the Analyze Data to Answer Questions and Data Analysis with R Programming courses.

5. Learn more about the **Share** phase of the process in the [Share Data Through the Art of Visualization](#) and [Data Analysis with R Programming](#) courses.

6. Learn more about the **Act** phase of the process in the [Google Data Analytics Capstone: Complete a Case Study](#) course.