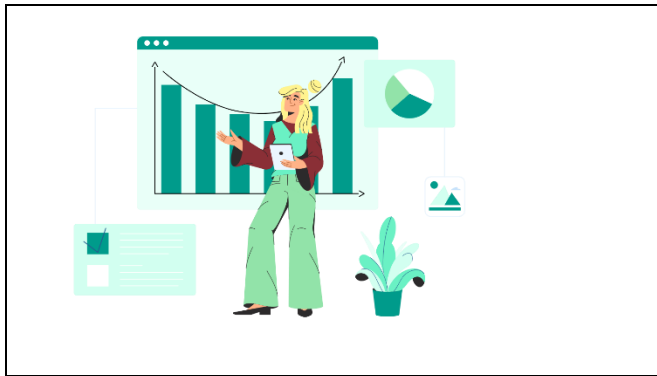


Learner Handout – Scientific Data Analyst



Job Profile:	Scientific Data Analyst
Role Description:	A scientific data analyst is a professional who uses scientific methods to study and analyse the natural world. They work in various fields, including biology, chemistry, physics, and earth sciences, to advance knowledge and understanding. A scientific data analyst require strong analytical, critical thinking, and communication skills and can work in academic and research institutions, government agencies, or private industries. They contribute to various endeavours, such as developing new technologies and treatments for diseases and improving our knowledge of the environment and universe.
Competences Addressed:	<ul style="list-style-type: none"> • Business Acumen • Agility • Drive to Succeed • Learnability • Strategic Problem-Solving
Key Skills:	<ul style="list-style-type: none"> • Strong analytical and critical thinking skills • Ability to design experiments and conduct research • Excellent problem-solving abilities • Diligence and accuracy • Effective communication skills, both verbal and written • Ability to work independently and collaboratively • Proficiency in data analysis and statistical methods • Flexibility and adaptability in the face of new challenges or changing circumstances

	<ul style="list-style-type: none">• Proficiency in computer programming and modelling• Familiarity with laboratory techniques and equipment• Ability to learn and apply new concepts and technologies quickly
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Personal Action Plan:

Individual's Name: _____

G: Goal - The Goal is the endpoint, where you want to be. The goal has to be defined in such a way that it is clear to you when you have achieved it.

R: Reality - This is how far you are from their goal. If you were to look at all the steps you need to take in order to achieve the goal, the Reality would be the number of those steps you have completed so far.

Where do I want to be? – Long Term Goal

Where am I now? – Reality

***Education/Training History:**

***Career History:**

O: Obstacles - There will be Obstacles stopping you from getting where you are now to where you want to go. If there were no Obstacles, you would already have reached your goal.

Options, once the Obstacles have been identified, the ways of dealing with them are the Options.

***What is stopping me from getting where I want to be? – Obstacles**

What could I do? – Options



W: Way Forward - The Options then need to be converted into action steps which will take you to your goal. These are the Way Forward.

Next Steps:

How can I get there? – Way Forward Action Points

Additional Learning Resources

Title: What Is Business Acumen in Data Science and How to Build It	Link: https://www.datasciencesociety.net/what-is-business-acumen-in-data-science-and-how-to-build-it/#:~:text=Although%20there's%20no%20universally%20accepted,those%20solutions%20to%20business%20effect.
Title: How to Improve Your Business Acumen as a Data Scientist	Link: https://medium.com/mlarning-ai/how-to-improve-your-business-acumen-as-a-data-scientist-aa0627ee31bd
Title: Why Does a Scientist Need to Be Open-Minded?	Link: https://work.chron.com/scientist-need-openminded-9492.html
Title: What Skills Do You Need to Be a Scientist?	Link: https://news.hyperec.com/post/what-skills-do-you-need-to-be-a-scientist
Title: 13 different scientific types and careers to consider	Link: https://uk.indeed.com/career-advice/finding-a-job/scientist-types
Title: The Scientific Method Of Problem Solving	Link: http://hobart.k12.in.us/jkousen/Sci_Meth/pmethod.htm
Title: What motivates a scientist.	Link: https://researcherblogski.wordpress.com/2016/04/26/what-motivates-a-scientist/#:~:text=A%20sense%20of%20duty.&text=A%20fairly%20common%20motivation%20amongst,should%20have%20a%20practical%20application.
Title: Why do people become scientists? What scientists told us	Link: https://www.pewresearch.org/fact-tank/2016/10/24/as-the-need-for-highly-trained-scientists-grows-a-look-at-why-people-choose-these-careers/#:~:text=Many%20of%20these%20scientists%20reported,or%20science%20and%20techn https://www.linkedin.com/pulse/adaptability-absolute-essential-working-science-amber-short/ology%20museums.
Title: Scientists are lifelong learners. What does that mean to you?	Link: https://ssecommunityblog.org/scientists-are-lifelong-learners-what-does-that-mean-to-you/#:~:text=Many%20scientists%20are%20gearing%20up,technologies%2C%20which%20move%20unbelievably%20quickly.
Title: Adaptability – an absolute essential working in science.	Link: https://www.linkedin.com/pulse/adaptability-absolute-essential-working-science-amber-short/