In the realm of technology, **tech metals** refer to relatively rare metals commonly used in high-tech devices. [These metals play a crucial role in powering our modern world, from consumer electronics to advanced defense systems1](https://www.cummins.com/news/2021/04/19/what-are-tech-metals-and-rare-earth-elements-and-how-are-they-used).

Here are **five free learning resources** where you can delve deeper into the world of tech metals:

1. **AI Singapore Student Outreach Programme**: This initiative promotes AI literacy and proficiency among students, equipping them with programming skills and practical experience in AI projects. [Completion of the program earns industry-recognized certificates and even a Google professional machine learning engineer certificate](https://www.cummins.com/news/2021/04/19/what-are-tech-metals-and-rare-earth-elements-and-how-are-they-used)[2](https://www.tech.gov.sg/media/technews/new-year-new-tech-skills).
2. **SkillsFuture@NS Learning eXperience Platform**: Designed for full-time national servicemen (NSFs), this platform offers free unlimited access to over 75,000 online courses. [Topics include python programming, machine learning, management training, and digital photography](https://www.cummins.com/news/2021/04/19/what-are-tech-metals-and-rare-earth-elements-and-how-are-they-used)[2](https://www.tech.gov.sg/media/technews/new-year-new-tech-skills).
3. **Coursera**: Coursera provides numerous free courses, some from renowned universities. [Explore machine learning, game theory, COVID-19 contact tracing, microeconomics, and more](https://www.cummins.com/news/2021/04/19/what-are-tech-metals-and-rare-earth-elements-and-how-are-they-used)[2](https://www.tech.gov.sg/media/technews/new-year-new-tech-skills).
4. [**Alison**: Learn about manufacturing processes, including metalworking, through Alison’s free online course](https://www.cummins.com/news/2021/04/19/what-are-tech-metals-and-rare-earth-elements-and-how-are-they-used)[3](https://www.cio.com/article/221812/8-free-online-course-sites-for-growing-your-tech-skills.html).
5. [**FutureLearn**: Dive into the challenges of metal sourcing for low-carbon technologies with their course on **Technology Metals for a Green Future**](https://www.cummins.com/news/2021/04/19/what-are-tech-metals-and-rare-earth-elements-and-how-are-they-used)[4](https://www.futurelearn.com/courses/technology-metals-for-a-green-future).

Happy learning! 🌟📚