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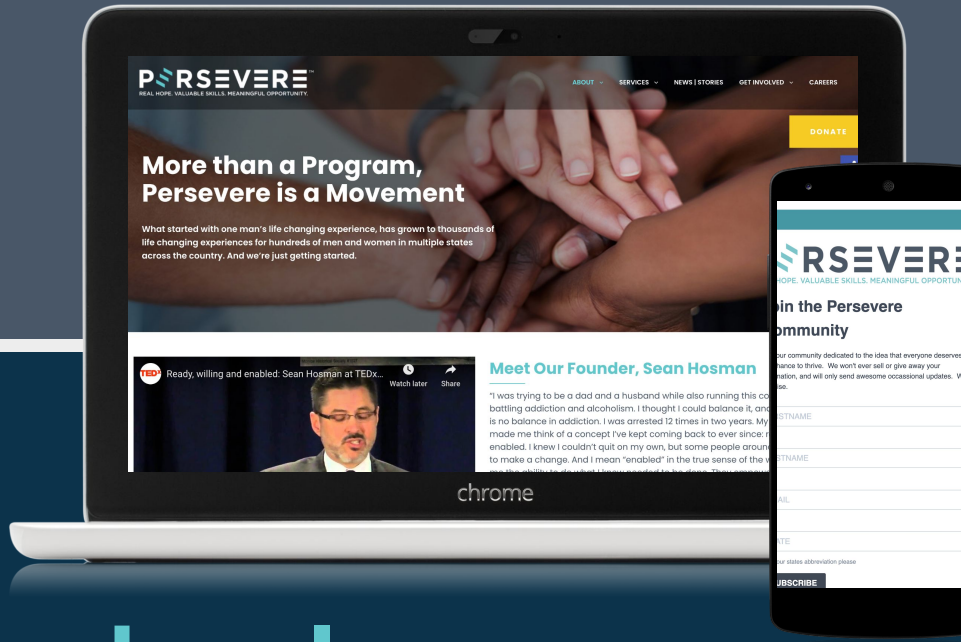
Welcome to Persevere

Instructor: J. Doty



Module 0.1
Introduction to Technology

Welcome to Persevere

Module 0.1.1.1
Introduction to Technology

Understanding Technology Basics

Training Objectives

- **Understanding Technological Concepts:** The training aims to provide participants with a solid foundation in various technological concepts. This includes fundamental principles, terminologies, and frameworks related to technology.

- **Enhancing Technical Skills:** The training seeks to enhance participants' technical skills by focusing on specific technologies relevant to their roles or industries. This could involve hands-on training, practical exercises, and case studies to develop proficiency in using tools, software, and hardware.

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Module 0.1.1.2
Introduction to Technology

Understanding Technology Basics

Training Objectives

- **Promoting Digital Literacy:** The objective is to improve participants' digital literacy and their ability to effectively navigate and utilize digital tools and technologies. This includes topics such as internet usage, online collaboration, information security, and data privacy.

- **Encouraging Innovation and Creativity:** The objective is to inspire participants to think creatively and encourage innovative approaches to utilizing technology. This could involve sessions on design thinking, brainstorming techniques, and exploring emerging technologies.

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Module 0.1.1.3
Introduction to Technology

Importance of Technology in our lives

Introduction

Technology is an essential part of our daily lives. Every other task we do today relies heavily on technology. We depend so much on it that we can't even imagine our lives without technology. We use hundreds of gadgets in our homes, schools, and offices.

You know that this world is connected through technology. For example, you can talk to someone through smartphones, internet connectivity, GPS, and many more technologies.

We can do anything with the help of technology. If you want to grow your career, you must understand the importance of technology. Technology increases a person's growth, a country's development, and its GDP.

However, many people still don't know how much is the **importance of technology** in our lives. So, in this lesson, we will discuss the importance of technology in our lives.

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Module 0.1.1.4 Introduction to Technology

Importance of Technology in our lives

Overview

Technology, in simple terms, is the use of scientific knowledge for the practical purposes of humans, whether in industry and business, education, or our everyday lives. We have seen a lot of advancements in technology in recent years.

We are all so dependent on technology that it is impossible to do anything without it. Technology is used in many areas of our lives. You may be able to understand technology when you watch TV, use your phone, drive a vehicle, or use a computer.

Technology is essential to work, communicating, and surviving. The coronavirus epidemic was another example of this. During this pandemic, when everyone was stuck at home, technology helped to do remote work, Online classes, entertainment, and relieve stress.

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Module 0.1.1.5 Introduction to Technology

Importance of Technology in our lives

Top 10 of Importance

1. Technology Improves Efficiency

All the companies work with a common goal of reducing the inputs and enhancing the output. Technology helps companies in achieving this goal. One such popular technology is automation, which is helping companies a lot.

The output of machines is faster than that of humans, and they don't need to rest. The output of manual labour that used to take months can now be achieved in just a few hours or days with the help of machinery.

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Module 0.1.1.6 Introduction to Technology

Importance of Technology in our lives

Top 10 of Importance

2. Technology Enhances Communication

Before the evolution of technology, businesses relied on face-to-face meetings and physical mail to communicate their ideas. Today, when technology has so evolved, people can easily communicate with one another from thousands of miles apart. E-mails, phone calls, and video conferences have made communication easier and faster.

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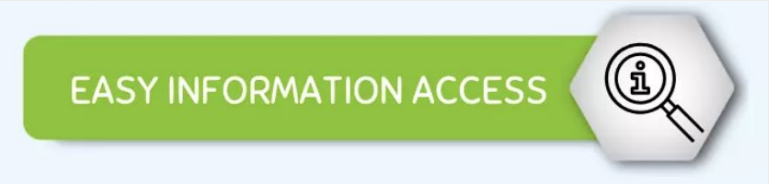
Module 0.1.1.7
Introduction to Technology

Importance of Technology in our lives

Top 10 of Importance

3. Easy Information Access

Technology has made accessing information extremely easy. Before the evolution of smartphones and computers, people had only one resource for finding information: books. So, it was very difficult for people to find information. Technology has changed the way of accessing information. We can easily find any information about anything within a few clicks on our smartphone or computer using the internet. We can get information in different forms such as audio, video, text, image, etc.



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Module 0.1.1.8 Introduction to Technology

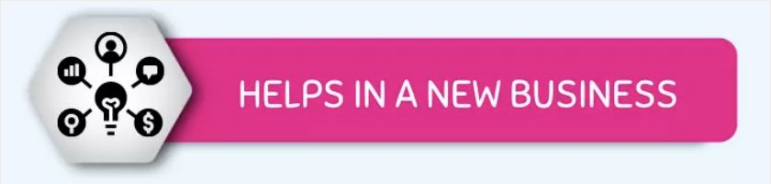
Importance of Technology in our lives

Top 10 of Importance

4. Technology Helps In A New Business

The technology revolution has made it possible to start ventures and raise capital. Because of the wide range of options available, everyone can implement their ideas. It is easy to create business plans which is the first step in starting a business.

Entrepreneurs can also benefit from the correct tech solutions by streamlining their operations and staying organised, which is critical for scalability. Product-based organisations can also use technology to improve both employee and customer sales processes.



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Module 0.1.1.9
Introduction to Technology

Importance of Technology in our lives

Top 10 of Importance

5. Technology Saves Time

Machines are extremely faster than humans. The work for which humans take several months can be completed with machines in a few hours or days. Also, people were often lost trying to find their way to their destination. Finding directions to the destination was difficult.

However, today, finding directions to any location in the world is easy with accurate navigation technology. Technology saves time for everyone who uses it well.

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Module 0.1.1.10
Introduction to Technology

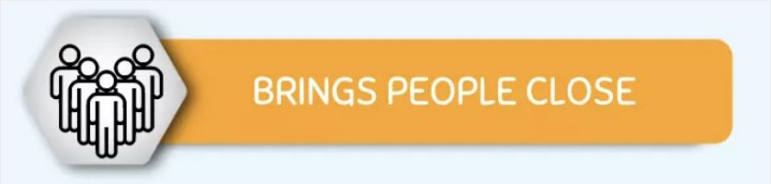
Importance of Technology in our lives

Top 10 of Importance

6. Technology Brings People Close

In previous times, people who traveled to other countries could not see their loved ones. They would have to wait many years before returning to their homeland and seeing their family or friends.

People can now video call and text their friends and family to stay in touch. Technology has brought people closer together to social media platforms, where they can keep up to date on their family's activities.



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Module 0.1.1.11 Introduction to Technology

Importance of Technology in our lives

Top 10 of Importance

7. Technology Saves Cost

No one can deny the importance of technology in saving costs. Using the right technology in business can save you a lot of money. Organizations would rely heavily on paper to communicate. Digitalization has reduced the cost of buying paper in bulk. Technology also reduced labour costs.

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Module 0.1.1.12 Introduction to Technology

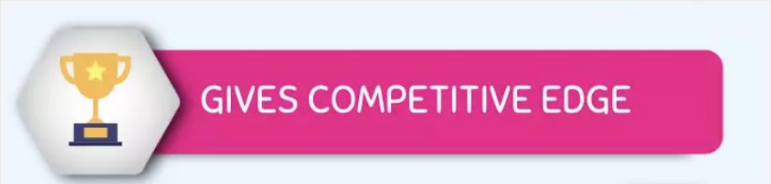
Importance of Technology in our lives

Top 10 of Importance

8. Technology Gives Competitive Edge

Companies are using more advanced technologies than other competitors to beat them.

For example, a company with high-end printing equipment can easily beat the other companies with regular printing machines. Advanced technology can create better products that can win the market.



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Module 0.1.1.13 Introduction to Technology

Importance of Technology in our lives

Top 10 of Importance

9. Technology allows for innovation.

Technology is now used to research and develop new ideas, which improves our ability to test and implement them. Innovation upgrades the technology system from time to time. For example, a 4G network upgrade into a 5G network and all other upgrades in technology.

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Module 0.1.1.14 Introduction to Technology

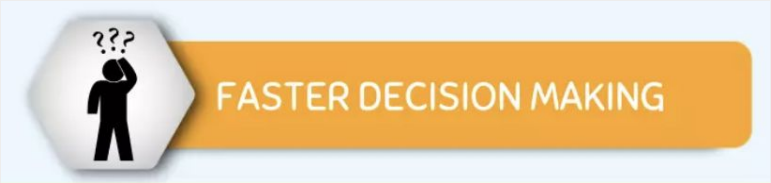
Importance of Technology in our lives

Top 10 of Importance

10. Faster Decision Making

Faster decision-making is another primary importance of technology. Technology is becoming more capable of handling large amounts of data. It can help to improve decision-making.

Before the evolution of technology, the data analysis process was very long. Today, data analytics is much faster and easier, allowing businesses to make better decisions.



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Module 0.1.1.15
Introduction to Technology

Importance of Technology in our lives

3 Types of Innovation

1. Semi-Radical Technology

This type of technological innovation relies on prior technological knowledge. However, it uses this knowledge in such a way that it stands out from the past. Previously, cellphones were thought to be mobile telephones, but this is no longer the case.

They have now become smart and are called smartphones. Along with voice calls, we can use them to watch videos, listen to songs, send messages, and so on.

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Module 0.1.1.16
Introduction to Technology

Importance of Technology in our lives

3 Types of Innovation

2. Disruptive

This type of technological innovation disrupts the previous technology, with new products and technologies that are more accessible. It challenges existing businesses and supply systems. We can take the example of Digital photography which eliminated the need for using traditional cameras that captures each photo on a film.

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Module 0.1.1.17
Introduction to Technology

Importance of Technology in our lives

3 Types of Innovation

3. Incremental

Incremental technological innovations are small, yet they significantly improve a product. They are tiny enhancements or modifications to a company's existing services, processes, products, or methodologies. Incremental innovation can improve productivity, development efficiency, and competitive differentiation.

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Module 0.1.1.18 Introduction to Technology

Importance of Technology in our lives

Education

1. **Enhanced Learning:** Technology provides interactive and engaging learning experiences, catering to diverse learning styles.
2. **Global Access:** Online platforms democratize education, making it accessible to remote and underserved areas.
3. **Personalized Learning:** Adaptive technologies tailor education to individual student needs, improving learning outcomes.
4. **Resource Abundance:** Digital libraries and educational apps offer a vast array of resources for research and study.
5. **Skill Development:** Tech skills acquired in education prepare students for the tech-driven job market.
6. **Collaboration:** Technology facilitates remote collaboration and teamwork, fostering a modern learning environment.
7. **Future Readiness:** Exposure to technology equips students with essential digital literacy for their future careers.

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Module 0.1.1.19 Introduction to Technology

Importance of Technology in our lives

Society

1. **Information Access:** Technology enables quick and widespread access to information, empowering informed decision-making.
2. **Communication:** Instant global connectivity enhances communication, fostering cultural exchange and understanding.
3. **Innovation:** Technological advancements drive innovation, improving quality of life and addressing societal challenges.
4. **Efficiency:** Automation and digitization streamline processes, increasing efficiency across industries.
5. **Economic Growth:** Technology contributes to economic development through new markets, industries, and job opportunities.
6. **Social Interaction:** Social media and online platforms facilitate networking, activism, and community building.
7. **Environmental Impact:** Tech solutions promote sustainability and eco-friendly practices for a greener society.

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Module 0.1.1.20
Introduction to Technology

Importance of Technology in our lives

Healthcare

1. **Diagnosis and Treatment:** Technology aids precise diagnosis, advanced imaging, and effective treatment planning.
2. **Remote Healthcare:** Telemedicine and wearable devices enable remote patient monitoring and virtual consultations.
3. **Patient Records:** Electronic health records ensure accurate and accessible patient information.
4. **Research and Drug Development:** High-performance computing accelerates research, drug discovery, and clinical trials.
5. **Health Management:** Health apps and wearable tech promote personal health tracking and management.
6. **Medical Education:** Simulations, virtual reality, and online courses enhance medical education and training.
7. **Patient Empowerment:** Technology empowers patients with health information and tools for proactive health management.

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Module 0.1.1.21 Introduction to Technology

Importance of Technology in our lives

Communication

1. **Global Connectivity:** Technology bridges geographical gaps, allowing instant communication worldwide.
2. **Efficient Exchange:** Emails, messaging apps, and video conferencing streamline communication in various contexts.
3. **Real-Time Updates:** Social media and news platforms provide real-time information dissemination.
4. **Business Collaboration:** Online tools enhance teamwork and collaboration across distances.
5. **Cultural Exchange:** Technology facilitates cross-cultural communication, promoting understanding and tolerance.
6. **Inclusive Communication:** Accessibility tools ensure communication for people with disabilities.
7. **Marketing and Outreach:** Digital platforms amplify marketing efforts and broaden audience reach.

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Module 0.1.1.22 Introduction to Technology

Importance of Technology in our lives

Teaching

1. **Engagement:** Technology makes learning interactive, engaging students through multimedia and gamification.
2. **Access to Resources:** Digital libraries and online databases offer a wealth of learning materials.
3. **Personalized Learning:** Adaptive learning platforms tailor lessons to individual student progress and needs.
4. **Remote Learning:** E-learning and virtual classrooms enable education beyond traditional settings.
5. **Skill Development:** Tech integration equips students with digital literacy and tech skills.
6. **Teacher Support:** Educational software aids teachers in lesson planning, assessment, and student tracking.
7. **Continuous Learning:** Online courses and webinars support professional development for educators.

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Module 0.1.1.23 Introduction to Technology

Importance of Technology in our lives

Business

1. **Efficiency:** Automation and software streamline operations, reducing manual workloads and errors.
2. **Data Analysis:** Technology enables data-driven decision-making, aiding market analysis and strategy.
3. **Customer Interaction:** Online platforms enhance customer engagement, support, and feedback collection.
4. **E-commerce:** Online shopping platforms expand market reach and customer convenience.
5. **Innovation:** Tech solutions drive product and service innovation, keeping businesses competitive.
6. **Communication:** Virtual meetings, collaboration tools, and remote work technologies facilitate team communication.
7. **Market Reach:** Digital marketing and social media extend business visibility and customer reach.

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Module 0.1.1.24 Introduction to Technology

Importance of Technology in our lives

Group Discussion

How is technology important in your life?

- IMPROVES EFFICIENCY
- BRINGS PEOPLE CLOSE
- ENHANCES COMMUNICATION
- TECHNOLOGY SAVES COST
- EASY INFORMATION ACCESS
- GIVES COMPETITIVE EDGE
- HELPS IN A NEW BUSINESS
- ALLOWS FOR INNOVATION
- TECHNOLOGY SAVES TIME
- FASTER DECISION MAKING

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Module 0.1.1.25
Introduction to Technology

Computer Basics:
What is a computer?

Video Tutorial

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Module 0.1.1.26
Introduction to Technology

Computer Basics:
Buttons and Ports

Video Tutorial

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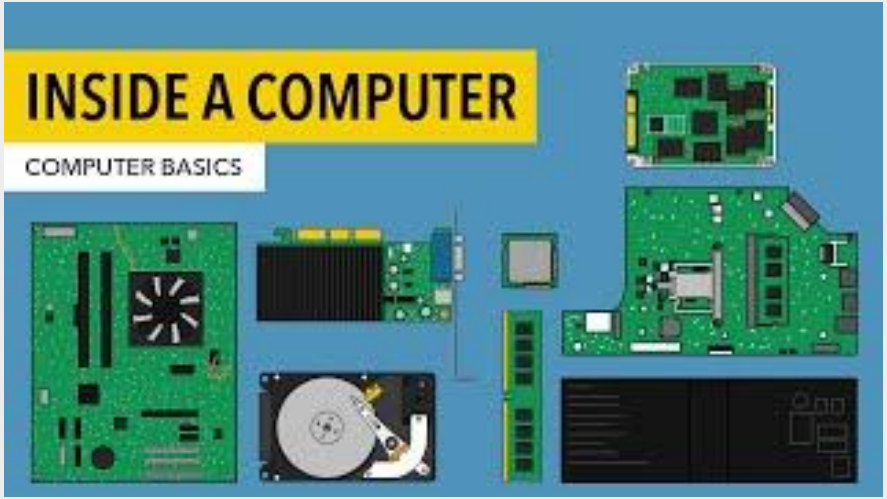
Module 0.1.1.27
Introduction to Technology

Computer Basics:
Inside a Computer



Video Tutorial

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Module 0.1.1.28
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Computer Basics: Getting to Know Laptop Computers

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Module 0.1.1.29
Introduction to Technology

Computer Basics: Understanding Operating Systems

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Module 0.1.1.30
Introduction to Technology

Computer Basics: Understanding Applications

Video Tutorial

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Module 0.1.1.31
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Computer Basics: Setting Up a Desktop Computer

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Computer Basics: Getting Started with Windows Desktop

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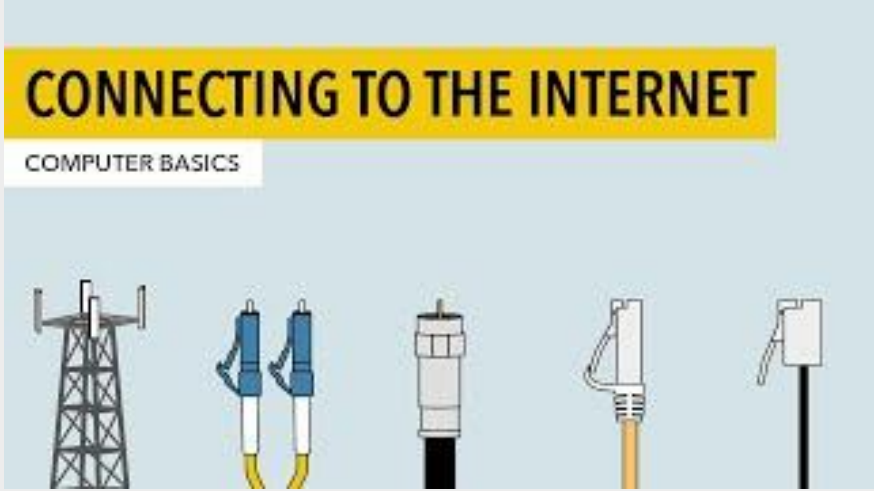
Module 0.1.1.33
Introduction to Technology

Computer Basics: Connecting to the Internet



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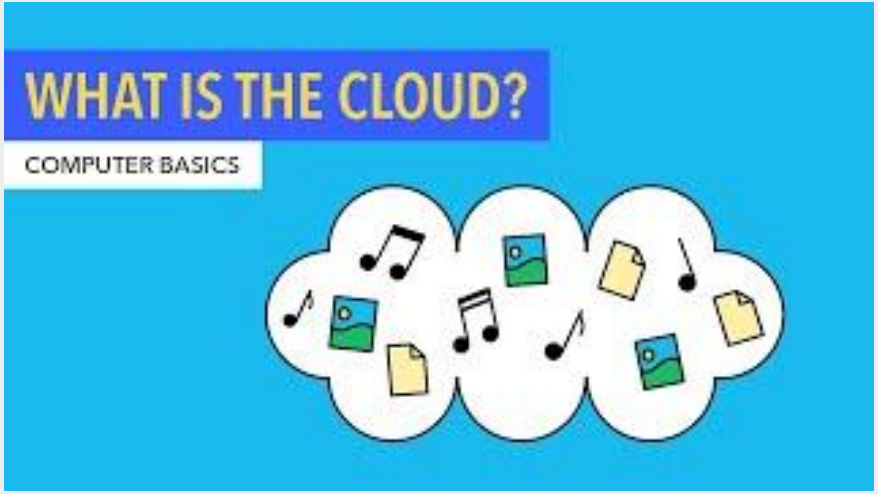
Introduction to Technology

Computer Basics:
What is the Cloud?



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Computer Basics: Protecting Your Computer

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Computer Basics: Creating a Safe Workspace

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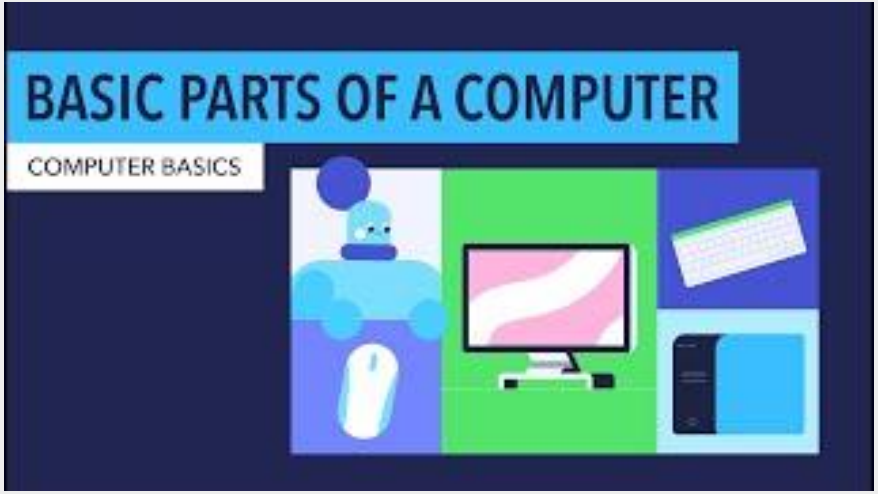
Module 0.1.1.37
Introduction to Technology

Computer Basics:
Basic Parts of a Computer



Video Tutorial

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Introduction to Technology

Computer Basics:
Cleaning a Computer

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Module 0.1.1.39
Introduction to Technology

Computer Basics:
How to Use a USB Drive

Video Tutorial

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Module 0.1.1.40 Introduction to Technology

Google Meets Application Introduction

Tutorial

What is Google Meets? Google Meets is the application we use to conduct our virtual classes. By accepting the classroom invitation sent to your Persevere email, a class time event will be created on your Persevere Google Calendar and clicking on this event in that calendar allows you access to your virtual classroom in Google Meets.

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Module 0.1.1.41 Introduction to Technology

Google Classroom Introduction

Tutorial

What is Google Classroom? Google Classroom is an interactive application very similar in design as the facebook timeline feature that we use to post assignments, lesson materials, links and more. So that you always have access to all materials covered and assigned. It is here you will submit your assignments for grading as well.

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Module 0.1.1.42 Introduction to Technology

Slack Application Introduction

Tutorial

What is Slack? Slack is an industry wide used application for team collaboration and communication. This will be the preferred method of communication with your instructor.

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Module 0.1.1.43 Introduction to Technology

Collabornation Website Introduction

Tutorial

- **What is Collabornation?**
  Collabornation is the Online Classroom in which you will find and complete your Introduction to Technology Homework Assignments.

- **When will homework be assigned?**
  Introduction to Technology homework will be assigned at the end of each class.

- **When will homework assignments be due?**
  All Collabornation assignments will be due at the beginning of the next class. You will present your work during class.

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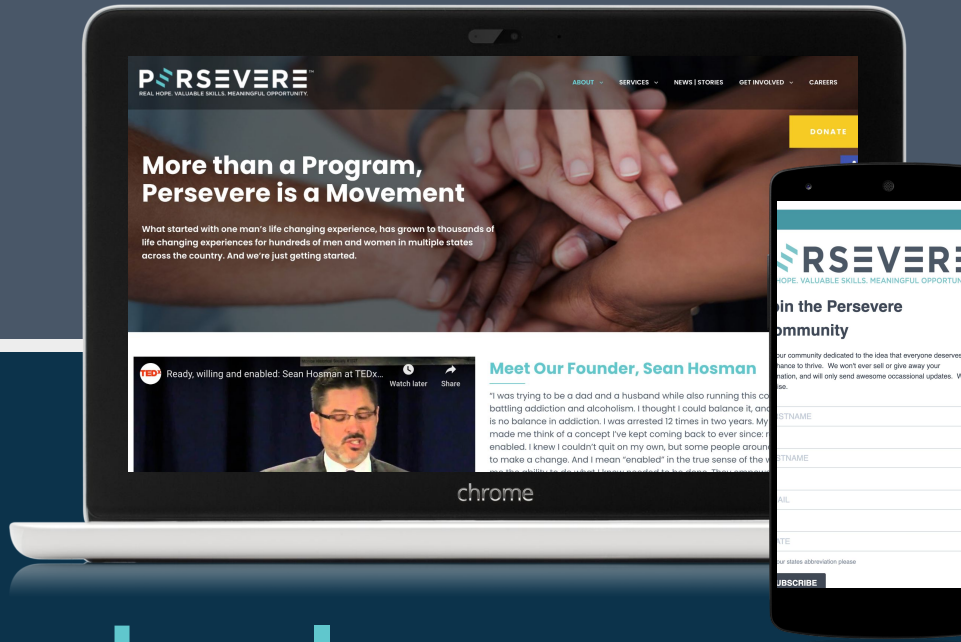

Module 0.1
Introduction to Technology