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Welcome to Persevere

Instructor: J. Doty

Module 0.1
Introduction to Technology

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Module 0.1.2.1 Introduction to Technology

Navigating The Internet

Training Objectives

Remember that navigating the internet involves continuous learning and adaptation as technology evolves. These objectives serve as a foundation, but it's important to stay curious, seek out new knowledge, and adapt to changing digital landscapes.

Develop Basic Internet Literacy:

Understand the fundamental concepts and terminology related to the internet, such as web browsers, URLs, search engines, hyperlinks, and online security.

Enhance Search Skills:

Learn effective search techniques, including the use of keywords, operators, and advanced search filters to retrieve accurate and relevant information from search engines.

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Module 0.1.2.2
Introduction to Technology

Navigating The Internet

Training Objectives

Evaluate Online Information:

Develop critical thinking skills to assess the credibility, reliability, and bias of online sources. Learn to differentiate between fact and opinion and identify potential misinformation or fake news.

Enhance Online Safety and Privacy:

Understand common online threats, such as phishing, malware, and identity theft. Learn best practices for creating strong passwords, using secure websites, and protecting personal information while browsing the internet.

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Module 0.1.2.3 Introduction to Technology

What is The Internet?

Internet Basics

The Internet is a **global network** of billions of computers and other electronic devices. With the Internet, it's possible to access almost any information, communicate with anyone else in the world, and do much more.

You can do all of this by connecting a computer to the Internet, which is also called **going online.** When someone says a computer is online, it's just another way of saying it's connected to the Internet.

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Module 0.1.2.4 Introduction to Technology

What is The Web?

Internet Basics

The **World Wide Web**—usually called the **Web** for short—is a collection of different **websites** you can access through the Internet. A **website** is made up of related text, images, and other resources. Websites can resemble other forms of media—like newspaper articles or television programs—or they can be interactive in a way that's unique to computers.

Once you are connected to the Internet, you can access and view websites using a type of application called a **web browser**. Just keep in mind that the web browser itself is not the Internet; it only displays websites that are stored on the Internet.

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Introduction to Technology

How does the Internet work?

Internet Basics

At this point you may be wondering, **how does the Internet work?** The exact answer is pretty complicated and would take a while to explain. Instead, let's look at some of the most important things you should know.

It's important to realize that the Internet is a global network of **physical cables**, which can include copper telephone wires, TV cables, and fiber optic cables. Even wireless connections like Wi-Fi and 3G/4G rely on these physical cables to access the Internet.

When you visit a website, your computer sends a request over these wires to a **server**. A server is where websites are stored, and it works a lot like your computer's hard drive. Once the request arrives, the server retrieves the website and sends the correct data back to your computer. What's amazing is that this all happens in just a few seconds!

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Module 0.1.2.6
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What is
The Internet?

Video Tutorial

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Other things you can do on the Internet

Internet Basics

One of the best features of the Internet is the ability to communicate almost instantly with anyone in the world. **Email** is one of the oldest and most universal ways to communicate and share information on the Internet, and billions of people use it. **Social media** allows people to connect in a variety of ways and build communities online.

There are many other things you can do on the Internet. There are thousands of ways to keep up with news or **shop for anything** online. You can pay your bills, **manage your bank accounts**, meet new people, **watch TV**, or learn new skills. You can learn or do almost anything online.

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What can you do online?

Finding Information

With billions of websites online today, there is **a lot** of information on the Internet. **Search engines** make this information easier to find. All you have to do is type one or more **keywords**, and the search engine will look for **relevant websites**.

For example, let's say you're looking for a new pair of shoes. You could use a search engine to learn about different types of shoes, get directions to a nearby shoe store, or even find out where to buy them online!

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What can you do online?

Email

Short for electronic mail, **email** is a way to **send and receive messages** across the Internet. Almost everyone who uses the Internet has their own email account, usually called an **email address**. This is because you'll need an email address to do just about anything online, from online banking to creating a Facebook account.

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Module 0.1.2.10 Introduction to Technology

What can you do online?

Social Networking

Social networking websites are another way to **connect and share** with your family and friends online. Rather than sharing with just a few people over email, social networks make it easier to **connect** and **share** with many people at the same time. **Facebook** is the world's largest social networking site, with **more than 1 billion users** worldwide.

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What can you do online?

Chat & Instant Message

Chat and **instant messaging (IM)** are short messages sent and read **in real time**, allowing you to converse more quickly and easily than email. These are generally used when both (or all) people are online, so your message can be read immediately. By comparison, **emails** won't be seen until recipients check their inboxes.

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Module 0.1.2.12 Introduction to Technology

What can you do online?

Online Media

There are many sites that allow you to **watch videos** and **listen to music**. For example, you can watch millions of videos on **YouTube** or listen to Internet radio on **Pandora**. Other services, like **Netflix** and **Hulu**, allow you to watch movies and TV shows. And if have a **set-top streaming box**, you can even watch them directly on your television instead of a computer screen.

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Module 0.1.2.13 Introduction to Technology

What can you do online?

Everyday Tasks

You can also use the Internet to complete many **everyday tasks** and **errands**. For example, you can manage your bank account, pay your bills, and shop for just about anything. The main advantage here is **convenience**. Rather than going from place to place, you can do all of these tasks at home!

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Module 0.1.2.14 Introduction to Technology

Using a Web browser

What’s a Web Browser?

A **web browser** is a type of software that allows you to find and view websites on the Internet. Even if you didn't know it, you're using a web browser right now to read this page! There are many different web browsers, but some of the most common ones include **Google Chrome**, **Safari**, and **Mozilla Firefox**.

No matter which web browser you use, you'll want to learn the basics of browsing the Web. In this lesson, we'll talk about **navigating** to different websites, **using tabbed browsing**, creating **bookmarks**, and more.

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Module 0.1.2.15
Introduction to Technology

Using a
Web browser

Video Tutorial

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Module 0.1.2.16 Introduction to Technology

Using a Web browser

URLs & Address Bar

Each website has a unique address, called a **URL** (short for **Uniform Resource Locator**). It's like a street address that tells your browser where to go on the Internet. When you type a URL into the browser's **address bar** and press **Enter** on your keyboard, the browser will load the page associated with that URL.

In the example below, we've typed **www.bbc.com/travel** into the address bar.

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Using a Web browser

Links

Whenever you see a word or phrase on a website that's **blue** or **underlined in blue**, it's probably a **hyperlink**, or **link** for short. You might already know how links work, even if you've never thought about them much before. For example, try clicking the link below.

Hey, I'm a link! Click me!

Links are used to **navigate the Web**. When you click a link, it will usually take you to a different webpage. You may also notice that your cursor changes into a **hand icon** whenever you hover over a link.

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Using a Web browser

Navigation Buttons

The **Back** and **Forward** buttons allow you to move through websites you've **recently viewed**. You can also click and hold either button to see your recent history.

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Using a Web browser

Navigation Buttons

The **Refresh** button will **reload** the current page. If a website stops working, try using the Refresh button.

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Using a Web browser

Tabbed Browsing

Many browsers allow you to open links in a new **tab**. You can open as many links as you want, and they'll stay in the **same browser window** instead of cluttering your screen with multiple windows.

To open a link in a new tab, **right-click** the link and select **Open link in new tab** (the exact wording may vary from browser to browser).

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Module 0.1.2.21 Introduction to Technology

Using a Web browser

Download Files

Links don't always go to another website. In some cases, they point to a **file** that can be **downloaded**, or saved, to your computer.

If you click a link to a file, it may download automatically, but sometimes it just **opens within your browser** instead of downloading. To prevent it from opening in the browser, you can **right-click** the link and select **Save link as** (different browsers may use slightly different wording, like **Save target as**).

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Navigating the internet.

Group Discussion

What is your favorite social media app?

Instagram

Snapchat

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Internet Tips:
Forgot your password?

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Internet Tips:
Understanding app permissions

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Internet Tips:
Basic Search Strategies

Video Tutorial

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Internet Tips:
Synthesizing Information

Video Tutorial

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Internet Tips:
Tips for Reading Webpages

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Internet Tips:
Browser basics

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Internet Tips:
Understanding Spam and Phishing

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Internet Tips:
Your browser's security features

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Internet Tips:
Understanding URLs

Video Tutorial

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Internet Tips:
Digital Tracking

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Introduction to Technology

Internet Tips:
Private browsing

Video Tutorial

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Internet Tips:
Zoom fatigue

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Module 0.1.2.35
Introduction to Technology

Download Google Chrome Web Browser

Tutorial

What is Google Chrome? Google Chrome is the industry standard web browser for web development. It allows for more control and offers more development tools.
We will ensure you have installed the latest version on your computer.

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Module 0.1.2.36
Introduction to Technology

Download Visual Studio Code Software

Tutorial

What is Visual Studio Code? Visual Studio Code (VS Code) is a free, lightweight code editor from Microsoft.

It's designed to help developers quickly code, build, and debug modern web and cloud applications.

VS Code supports many programming languages, including Python, Java, C++, and JavaScript.

Visual Studio Code

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Module 0.1.2.37 Introduction to Technology

GitHub Application Introduction

Tutorial

What is GitHub? GitHub is a web-based platform that uses the Git version control software for tracking changes and coordinating work among multiple people on shared projects. It's an essential tool in modern web development. GitHub allows developers to collaboratively write and improve code, manage and track changes, and ensure consistency and compatibility in project versions, even when there are many contributors.

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