**index.html CODE**

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<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>IT Networking Basics</title>

    <!--Css as the photos are wayyyyyy too big-->

    <style>

        img {

            width: 200px;

            height: auto;

        }

    </style>

</head>

<body>

    <h1>IT Networking</h1>

    <h2>Unlock The Secrets of IT and Propel Your Career</h2>

    <nav>

        <ul>

            <li><img src="images/Logo.png" alt="Logo"></li>

            <li><a href="index.html">Home</a></li>

            <li><a href="Basics.html">Basics</a></li>

            <li><a href="Certification.html">Certification</a></li>

            <li><a href="Study.html">Study Tools</a></li>

            <li><a href="Contact.html">Contact</a></li>

        </ul>

    </nav>

    <div>

        <p>Want To Keep Up With Current Technologies? Subscribe To Keep Updated With Our Weekly Newsletter.</p>

        <button type="Button">Subscribe</button>

    </div>

    <main>

        <section>

            <h2>About Us</h2>

            <p> Welcome to Connectech's Networking Basics!

                Whether you are a beginner looking to learn fundamentals or someone wanting to brush up on the material,

                you came to the right place.<br>

                This website is dedicated to providing resources and an introduction to the world of networking,

                as well as how to obtain

                an accredited certification to start your career!</p>

        </section>

        <section>

            <h2>Basics</h2>

            <div>

                <h5> The Essentials of Networking</h5>

                <img src="images/Basics.jpg" alt="Net Essentials">

                <ul>

                    <li>OSI Model</li>

                    <li>Networking Devices</li>

                    <li>Networking Types</li>

                </ul>

            </div>

        </section>

        <section>

            <h2>Certification</h2>

            <div>

                <h5>CompTIA Networking + Cert</h5>

                <img src="images/NET+BLK.jpg" alt="certification">

                <ul>

                    <li>About</li>

                    <li>Exam Objectives</li>

                </ul>

            </div>

        </section>

        <section>

            <h2>Study Tools</h2>

            <div>

                <h5>Tools To Ensure Success</h5>

                <img src="images/StudyTools1.jpg" alt="Study">

            </div>

        </section>

        <section>

            <h2>Contact</h2>

            <div>

                <h5>Get Connected With Our Community</h5>

                <img src="images/Contact1.jpg" alt="Contact1">

            </div>

        </section>

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            <img src="images/FacebookLogo.jpg" alt="Facebook">

        </div>

        <p><span>&copy;</span> 2024 Connectech inc.</p>

    </footer>

</body>

</html>

**index.html VALIDATOR**

**A screenshot of a computer

Description automatically generated**

**Index.HTML PAGE VIEW**

A screenshot of a computer

Description automatically generated**Screenshot 1 Screenshot 2**

A finger touching a logo

Description automatically generated

**Basics.HTML CODE**

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</head>

<body>

<nav>

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        <li><a href="Contact.html">Contact</a></li>

    </ul>

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<h1>IT Networking Basics</h1>

<img src="images/Basics.jpg" alt="Hero Banner">

<main>

<section>

    <img src="images/OSIModel.jpg" alt="OSI Model">

    <h1>OSI Model</h1>

    <p>The OSI (Open Systems Interconnection) model is the foundation for data communication across networks.

        Consisting of seven layers, the model breaks down the complex process needed to exchange information across multiple systems.

        Each layer of the OSI model serves a specific function in the communication process.

        By giving each process a specific layer, we now have a standard framework to establish connections between systems.

        Understanding this model is essential for network administrators and engineers for design, implementation, and troubleshooting.</p>

    <section>

        <h2>Physical</h2>

        <p>This Layer is the physical sending of data over the network.

            This includes cables, plugs, and connectors.

            This layer also determines the ones and zeros in a computer depending on whether there is or isn't an electrical signal.</p>

        <h2>Data Link</h2>

        <p>This is where communication between devices is created and maintained.

            Through addressing and synchronization, devices can connect to one another while ensuring data integrity.</p>

        <h2>Network</h2>

        <p>The network layer can be considered the organization system for which data is sent.

            By breaking up segments of data called network packets, and then reassembling them once the data is received by the other system,

            devices are now able to breakdown and rebuild network packets.</p>

        <h2>Transport</h2>

        <p>The transport layer is responsible for sending data from one device to another.

            It is also responsible for sending that data at a rate of speed that the device receiving the data can accurately handle.</p>

        <h2>Session</h2>

        <p>The session Layer creates communication using something called sessions between devices. It is also responsible for maintaining and closing this session, this allows the devices to begin transferring data to one another. This layer can also set points where transfers can be recovered if the transfer were to fail.</p>

        <h2>Presentation</h2>

        <p>This layer is responsible for taking data from the application layer, and presenting it to use for the session later. If this layer did not exist, the application layer would not be able to communicate with the session layer.</p>

        <h2>Application</h2>

        <p>This is the layer that works directly with user applications, by providing protocols, it allows the software to exchange information that users can then analyze.</p>

    </section>

</section>

<section>

    <p>Want To Keep Up With Current Technologies? Subscribe To Keep Updated With Our Weekly Newsletter.</p>

    <a href="Contact.html" target="\_blank">

        <button type="button">Subscribe</button>

    </a>

</section>

<section>

    <img src="images/TypeODevices.jpg" alt="Networking Devices">

    <h1>Networking Devices</h1>

    <p>These devices are hardware that allows us to facilitate connections and exchanges of data in a network.

        Without these devices, it would be nearly impossible to do any type of data exchange over the network.

         They serve as the backbone of networking infrastructure to allow devices to communicate with each other.</p>

    <section>

        <h2>Router</h2>

        <p>The router is the central device for the network.

            This device directs traffic between networks,

            while also figuring out which path is best to make sure packets make it to their destination.

            It is important to note that routers can establish a local connection or connections across multiple locations.</p>

        <h2>Modem</h2>

        <p>Also known as a Modulator and Demodulator,

            the modem connects your home to the internet through a physical cable.

            The modem also takes data from your internet provider and then changes it to allow your devices to connect to it.</p>

        <h2>Switch</h2>

        <p>A switch is a device that takes traffic input,

            and then redirects traffic to your local devices. Overall, it allows devices like computers,

            printers, and servers to connect within a local area network (LAN).</p>

        <h2>Access Point</h2>

        <p>This is the hardware that allows you to connect your devices over WiFi.

            By connection to a router, switch, or hub, the access point can project a WiFi signal that is then detected by your devices.

            This is a create solution if you can't physically connect your device to a router.</p>

    </section>

</section>

<section>

    <img src="images/TypeONetwork.jpg" alt="Types of Networks">

    <h2>Types of Networks</h2>

    <p>Depending on your needs, you can choose different types of networks that are differentiated by their sizes, overall scope, and connectivity.  Whether is a small office or across multiple branches of a company, choosing the right network size is important to meet the needs of the user.</p>

    <section>

        <h2>Local Area Network (LAN)</h2>

        <p>This is the smallest network. It consists of devices that are connected locally such as an office or home.</p>

        <h2>Wide Local Area Network (WLAN)</h2>

        <p>Another form of local area network that is connected together wirelessly instead of physically.</p>

        <h2>Wide Area Network (WAN)</h2>

        <p>Wide Area Network is a cluster of local area networks that communicate. You are using a WAN right now to read this as the internet is a WAN!</p>

        <h2>Metropolitan Area Network (MAN)</h2>

        <p>Bigger than a singular LAN but geographically located like a city or multiple towns. While this network is large, it is smaller than a WAN.</p>

        <h2>Campus Area Network (CAN)</h2>

        <p>Bigger than a LAN but smaller than a MAN. This network connects multiple devices together within a large property.</p>

    </section>

</section>

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<footer>

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        <img src="images/InstaLogo.jpg" alt="Instagram">

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    <p><span>&copy;</span> 2024 Connectech inc.</p>

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**Basics.HTML Validation**

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**Basics.HTML Page View**

**A white background with black and white lines

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A white screen with black text

Description automatically generated

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</head>

<body>

<nav>

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        <li><img src="images/Logo.png" alt="Logo"></li>

        <li><a href="index.html">Home</a></li>

        <li><a href="Basics.html">Basics</a></li>

        <li><a href="Certification.html">Certification</a></li>

        <li><a href="Study.html">Study Tools</a></li>

        <li><a href="Contact.html">Contact</a></li>

    </ul>

</nav>

<h1>Network + Certification</h1>

<img src="images/NET+BLU.jpg" alt="Hero Banner">

<main>

<section>

    <img src="images/NET+WHT.jpg" alt="About Net+">

    <h2>About Networking +</h2>

    <p>The Network Plus Certification is the recommended go-to if you wish to become certified in networking. This certification is globally recognized and proves you have the skills to manage, design, and troubleshoot physical and wireless networks of networking</p>

</section>

<section>

    <p>Want To Keep Up With Current Technologies? Subscribe To Keep Updated With Our Weekly Newsletter.</p>

    <a href="Contact.html" target="\_blank">

        <button type="Button">Subscribe</button>

    </a>

</section>

<section>

    <h2>Exam Objectives</h2>

    <p>These objectives are the roadmap for any person wishing to obtain the Networking + certification. If able to understand and master these objectives, candidates will be able to easily demonstrate their proficiency in networking.</p>

    <img src="images/NET+OBJ.jpg" alt="Net Obj">

    <section>

        <h3>Network Fundamentals</h3>

        <ul>

            <li>Have knowledge and understanding of the OSI model layer and their affiliated concepts.</li>

            <li>Understand Network types and their typologies</li>

            <li>Know the types of networking cables and have knowledge of which is best for a particular solution.</li>

            <li>Have a solid understanding of common ports, protocols, and their alternatives</li>

            <li>Understand networks servicing and why they are used.</li>

        </ul>

        <h3>Network Implementation</h3>

        <ul>

            <li>Understand similarities and differences between devices and their use cases.</li>

            <li>Know of routing technologies and bandwidth management.</li>

            <li>Deploy certain switching features given a scenario.</li>

            <li>Use the correct wireless technologies given a scenario.</li>

        </ul>

        <h3>Network Operations</h3>

        <ul>

            <li>Use statistics and sensors to keep network availability given a scenario.</li>

            <li>Understand the purpose of organizational policies and documents.</li>

            <li>Know disaster recovery concepts and know which solution is best given a scenario.</li>

        </ul>

        <h3>Network Security</h3>

        <ul>

            <li>Understand Common Security Concepts</li>

            <li>Understand similarities and differences between different types of attacks.</li>

        </ul>

    </section>

</section>

<section>

    <p>To Look At The Official CompTia Site To Learn More Click <a href="https://www.comptia.org/certifications/network">Here</a></p>

</section>

</main>

<footer>

    <div>

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    <p><span>&copy;</span> 2024 Connectech inc.</p>

</footer>

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**Certification.HTML Validation**

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Description automatically generated**

**Certification.HTML Page View**

A screenshot of a computer

Description automatically generated**A screenshot of a computer

Description automatically generated**

**Study.HTML Code**

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<nav>

    <ul>

        <li><img src="images/Logo.png" alt="Logo"></li>

        <li><a href="index.html">Home</a></li>

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        <li><a href="Study.html">Study Tools</a></li>

        <li><a href="Contact.html">Contact</a></li> <!-- Fixed the href -->

    </ul>

</nav>

<h1>Study Materials</h1>

<img src="images/StudyTools2.jpg" alt="Study2">

<main>

<section>

    <img src="images/ProfMesser.jpg" alt="Professor Messer">

    <h2>Professor Messer (Free)</h2>

    <p>Professor Messer, also known as James Messer, is renowned for his free online video courses.

        His most notable works being for CompTIA certifications like Network+.

        Messer's clear teaching style and comprehensive coverage make complex networking concepts more accessible to learners.

        Through his videos, study guides, and practice questions,

        he has helped countless individuals prepare for and pass their Network+ certification exams.</p>

    <p>Click <a href="https://www.youtube.com/@professormesser">here</a> to view Messer's free youtube videos and <a href="https://www.professormesser.com/">here</a> to visit his website.</p>

</section>

<section>

    <img src="images/CISCOCCNA.jpg" alt="Cisco">

    <h2>Cisco (Free)</h2>

    <p>The Cisco Networking Academy is a global IT and cybersecurity education program offered by Cisco Systems.

        It provides online courses, interactive tools,

        and hands-on learning experiences to help individuals develop the skills needed for careers in networking,

        cybersecurity, and other IT-related fields. The program covers a wide range of topics,

        from basic networking fundamentals to advanced cybersecurity techniques.

        Through partnerships with educational institutions and organizations worldwide,

        the Cisco Networking Academy aims to empower individuals with the knowledge and skills required to thrive in today's digital economy.</p>

    <p>Click <a href="https://www.netacad.com/">here to view Cisco Networking Academy.</a></p>

</section>

<section>

    <img src="images/UdemyClass.jpg" alt="Udemy">

    <h2>Udemy (Paid)</h2>

    <p>Udemy offers a variety of courses to help individuals prepare for the CompTIA Network+ certification exam.

        These courses cover essential networking concepts, including network protocols, hardware, security, and troubleshooting.

        Taught by expert instructors, Udemy's Network+ certification courses provide comprehensive content and practical exercises to help learners master the material and succeed on the exam.

        With flexible learning options and affordable pricing, Udemy makes it convenient for aspiring networking professionals to access high-quality training resources from anywhere in the world.</p>

    <p>Click <a href="https://www.udemy.com/?utm\_source=adwords-brand&utm\_medium=udemyads&utm\_campaign=Brand-Udemy\_la.EN\_cc.US\_dev&utm\_term=\_.\_ag\_137319648178\_.\_ad\_634190764968\_.\_de\_c\_.\_dm\_\_.\_pl\_\_.\_ti\_kwd-296956216253\_.\_li\_9010436\_.\_pd\_\_.\_&utm\_term=\_.\_pd\_\_.\_kw\_udemy\_.\_&matchtype=b&gad\_source=1&gclid=CjwKCAiAibeuBhAAEiwAiXBoJN87vFjyrXvJsZ-BqtIssdZ\_RFYAvM0EUwiqnlvy29QM3AqLtn8LJxoCMacQAvD\_BwE">here</a> to view Udemy Courses.</p>

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    <p><span>&copy;</span> 2024 Connectech inc.</p>

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**Study.HTML Validation**

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**Study.HTML Page View**

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Description automatically generated with medium confidence

**Contact.HTML Code**

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    <title>Contact</title>

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        <li><a href="Study.html">Study Tools</a></li>

        <li><a href="Contact.html">Contact</a></li>

    </ul>

</nav>

<h1>Contact Us!</h1>

<img src="images/Contact2.jpg" alt="Contact">

<main>

<section>

    <h2>Contact Us!</h2>

    <p>Enter Your Name and Email Address and We Will Connect You With the Right Person!</p>

    <form action="/submit-form" method="post">

        <label for="first-name">First Name</label><br>

        <input type="text" id="first-name" name="first-name" required><br>

        <label for="last-name">Last Name</label><br>

        <input type="text" id="last-name" name="last-name" required><br>

        <label for="contact-email">Email</label><br>

        <input type="email" id="contact-email" name="contact-email" required><br><br>

        <label for="message">Tell Us What You Want To Talk About!</label><br>

        <textarea id="message" name="message" rows="4" cols="50" required></textarea><br><br>

        <input type="submit" value="Submit">

    </form>

</section>

<section>

    <h2>Newsletter!</h2>

    <p>Want to keep up with the latest tech trends and technologies? Subscribe for weekly updates!

        The email subscription can be canceled at any time.</p>

    <form action="/subscribe" method="post">

        <label for="newsletter-email">Email Address</label><br>

        <input type="email" id="newsletter-email" name="newsletter-email" required><br><br>

        <input type="submit" value="Subscribe">

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        <img src="images/XLogo.jpg" alt="X">

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        <img src="images/FacebookLogo.jpg" alt="Facebook">

    </div>

    <p><span>&copy;</span> 2024 Connectech inc.</p>

</footer>

</body>

</html>

**Contact.HTML Validation**

A screenshot of a computer

Description automatically generated

Note: Apologies for the CSS, the images were just legitimately too large, and almost doubled the amount of screenshots needed.

**Contact.HTML Page View**

A screenshot of a contact form

Description automatically generated