# Telecom Workplace Experience Course No. 11048 Credit: 1.0

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| --- | --- | --- | --- |
| **Student name:**  |  | **Graduation Date:** |  |

Pathways and CIP Codes: **Networking and Telecommunications (11.0901)**

Course Description: **Application Level:** a capstone course intended to provide students with opportunities to apply the skills and knowledge learned in previous CTE and general education courses within a professional work environment. The course allows students to earn high school credit for select models of work-based learning, which allow students to interact with industry professionals to extend and deepen classroom work and support the development of postsecondary and career readiness knowledge and skills. Competencies during the experience, verified by the WBL coordinator or district representative, should continue to align with attainment of appropriate CompTIA certification(s).

Directions:The following competencies are required for full approval of this course. Check the appropriate number to indicate the level of competency reached for learner evaluation.

**RATING SCALE:**

4. Exemplary Achievement: Student possesses outstanding knowledge, skills or professional attitude.

3. Proficient Achievement:Student demonstrates good knowledge, skills or professional attitude. Requires limited supervision.

2. Limited Achievement:Student demonstrates fragmented knowledge, skills or professional attitude. Requires close supervision.

1. Inadequate Achievement:Student lacks knowledge, skills or professional attitude.

0. No Instruction/Training:Student has not received instruction or training in this area.

## Benchmark 1: Employability Skills

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 1.1 | Understand and demonstrate all appropriate work-based personal and professional expectations, including but not limited to: demonstrate information literacy, use technology effectively and appropriately, communicate clearly and effectively, verbally and in writing, demonstrate critical thinking and problem solving, collaborate and work productively as a team member, demonstrate creativity and innovation, demonstrate initiative and self-direction, demonstrate professionalism and ethical behavior, demonstrate appropriate interpersonal and social skills, demonstrate adaptability and flexibility, and demonstrate productivity and accountability. |  |
| 1.2 | Understand and demonstrate adherence to appropriate professional safety standards. |  |
| 1.3 | Plan and navigate education and career paths aligned with personal goals. |  |
| 1.4 | Develop and implement a personalized learning plan (e.g. within the IPS) and reflect on experiences with an electronic, exportable portfolio. |  |
| 1.5 | Complete a Work-Based Personalized Learning plan. |  |

## Benchmark 2: Demonstrate Telecommuncations fundamentsls

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 2.1 | Successfully explain the principles of singal transmission, modulation, and demodulation. |  |
| 2.2 | Design and configure a basic network topology with routers and switches based on given requirements. |  |
| 2.3 | Demonstrate an understanding of common network protocols by analyzing netwrok traffic in a simulated environment. |  |

## Benchmark 3: Configuration, Voice, and data services

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 3.1 | Connnect devices in a small netwrok and troubleshoot common issues. |  |
| 3.2 | Explore the basics of IP addressing and create a mini network. |  |
| 3.3 | Experienment with voice-over-IP (VoIP) . |  |
| 3.4 | Set up a Wi-Fi network and undrestand the princples of wireless communication. |  |
| 3.5 | Explore the functionalities of mobile devices and their connection to cellular networks. |  |

## Benchmark 4: mini-projects in telecommunications

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 4.1 | Engage in small projects to apply skill and technical knowledge. |  |
| 4.2 | Colloborate with others to solve telecommunication challenges. |  |

## Benchmark 5: Ethics and Responsibilities

### Competencies

| **#** | **DESCRIPTION** | **RATING** |
| --- | --- | --- |
| 5.1 | Discuss the ethical considerations in using telecommunications technologies. |  |
| 5.2 | Demonstrate the importance of responsible use of technology (and applicable law). |  |

I certify that the student has received training in the areas indicated.

Instructor Signature:

For more information, contact:

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