

NORTH CAROLINA CAREER AND TECHNICAL EDUCATION STANDARDS

Computer Science and Information Technology Education

Grade: Grade 9 - 12

Course: Computer Engineering Technology I **Updated**

NCCTE.2020.II21 - Computer Engineering Technology I

NCCTE.2020.II21.01.00 - Understand mobile devices.

NCCTE.2020.II21.01.01 - Install and configure laptop hardware and components.

NCCTE.2020.II21.01.02 - Install components within the display of a laptop.Â

NCCTE.2020.II21.01.03 - Use appropriate laptop features.

NCCTE.2020.II21.01.04 - Compare characteristics of various types of other mobile devices.

NCCTE.2020.II21.01.05 - Connect and configure accessories and ports of other mobile devices.

NCCTE.2020.II21.01.06 - Configure basic mobile device network connectivity and application support.

NCCTE.2020.II21.01.07 - Use methods to perform mobile device synchronization.

NCCTE.2020.II21.02.00 - Understand networking.

NCCTE.2020.II21.02.01 - Compare TCP and UDP ports, protocols, and their purposes.

NCCTE.2020.II21.02.02 - Compare common networking hardware devices.

NCCTE.2020.II21.02.03 - Install and configure a basic wired/wireless SOHO network.

NCCTE.2020.II21.02.04 - Compare wireless networking protocols.

NCCTE.2020.II21.02.05 - Summarize the properties and purposes of services provided by networked hosts.

NCCTE.2020.II21.02.06 - Explain common network configuration concepts.

NCCTE.2020.II21.02.07 - Compare Internet connection types, network types, and their features.Â

NCCTE.2020.II21.02.08 - Use appropriate networking tools.

NCCTE.2020.II21.03.00 - Understand hardware.

NCCTE.2020.II21.03.01 - Explain basic cable types, features, and their purposes.

NCCTE.2020.II21.03.02 - Identify common connectory types.

NCCTE.2020.II21.03.03 - Install RAM types.

NCCTE.2020.II21.03.04 - Select, install and configure storage devices.

NCCTE.2020.II21.03.05 - Install and configure motherboards, CPUs, and add-on cards.

NCCTE.2020.II21.03.06 - Explain the purposes and uses of various peripheral types.

NCCTE.2020.II21.03.07 - Summarize power supply types and features.

NCCTE.2020.II21.03.08 - Select and configure appropriate components for a custom PC configuration to meet customer specifications or needs.

NCCTE.2020.II21.03.09 - Install and configure common devices.Â

NCCTE.2020.II21.03.10 - Configure SOHO multifunction devices, printers and settings.

NCCTE.2020.II21.03.11 - Install and maintain various print technologies.

NCCTE.2020.II21.04.00 - Understand virtualization and cloud computing.

NCCTE.2020.II21.04.01 - Compare cloud computing concepts.



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NCCTE.2020.II21.04.02 - Set up and configure client-side virtualization.

NCCTE.2020.II21.05.00 - Understand hardware and network troubleshooting.

NCCTE.2020.II21.05.01 - Use the best practice methodology to resolve problems.Â

NCCTE.2020.II21.05.02 - Troubleshoot problems related to motherboards, RAM, CPUs, and power.

NCCTE.2020.II21.05.03 - Troubleshoot hard drives and RAID arrays.

NCCTE.2020.II21.05.04 - Troubleshoot video, projector, and display issues.

NCCTE.2020.II21.05.05 - Troubleshoot common mobile device issues while adhering to the appropriate procedures.

NCCTE.2020.II21.05.06 - Troubleshoot printers.

NCCTE.2020.II21.05.07 - Troubleshoot common wired and wireless network problems.

