
Student Name

High School or Vocational Center

COMPETENCY RECORD FOR ARTICULATION

Baker College

Please check below each skill the student has mastered with a minimum of 80 percent accuracy or with an A or B grade.

NET101 NETWORKING ESSENTIALS I

Task	Satisfactory	Unsatisfactory
Identify the hardware and software components of personal computers and describe their functions.		
Identify and express the role of hardware components as they relate to a networked environment including workstations, servers, switches, access points and routers.		
Identify and express the role of software as it relates to a networked environment including computer operating systems, network operating systems, and productivity and service applications.		
Identify the elements of a network and the advantages of networked computing and using networked resources.		
Describe the physical characteristics of networking media.		
Describe the basic and hybrid LAN/WAN topologies – their uses, benefits and shortcomings.		
Identify the best suited network media for specific LAN/WAN environments.		
Understand the differences between access protocols and topologies used for LANs and WANs.		
Describe the structure and function of Ethernet networking technology.		
Understand the concepts of TCP/IP subnetting and network routing, including IP addresses, subnet masks and default gateways.		
Describe TCP/IP services, including DHCP and DNS.		
Identify the basic security threats to computer systems and networks and the hardware and software used to combat them.		
Describe the purpose and use of standard database objects, including tables, queries, forms and reports.		

Task	Satisfactory	Unsatisfactory
Demonstrate understanding of the relational database concepts of primary/foreign keys, table relationships and normalization.		
Identify the essential elements used to construct valid SQL queries.		
Understand the processes used in retrieving data from a relational database, including searching for records, sorting and filtering data, and maintaining referential integrity.		
Describe the career options available in the computer and networking fields.		
Understand the certification process and its importance to the technical professional.		

Teacher signature _____ Date _____