

2012/2013 DoDEA Student Competency Record
 Business Networking
 PTI601 - 36 weeks

Student	School Year
Grade	Term (fall, spring)
School	Teacher Signature

Mastery is a level of performance that shows that a student has demonstrated the knowledge, skills, and abilities for a unit of instruction or subject area as defined by a recognized standard. DoDEA defines levels of mastery and non-mastery to further distinguish student performance: such as competent or in need of remediation.

As students complete each competency, either the student or the teacher should assess the student's level of performance and mark the appropriate column next to the competency. A completed Competency Record should be used to provide information about competencies mastered to employer, student-employee, or another school/teacher.

PTI 601 36 weeks	Business Networking TASKS/COMPETENCIES	Mastery	Non- Mastery
Implementing DoDEA's CTE Course Requirements			
• 001	Demonstrate DoDEA's Workplace Readiness Skills in course activities.		
• 002	Identify issues related to this field of study that affect the environment and impact local and global communities.		
• 003	Identify Internet safety issues and procedures for complying with acceptable use standards.		
Troubleshooting Wired Networks			
• 004	Utilize the troubleshooting process.		
• 005	Describe and use the troubleshooting process to document network problems.		
• 006	Describe the utilities used to verify Transmission Control Protocol (TCP)/Internet Protocol (IP) connectivity.		
Planning a Network Upgrade			
• 007	Perform a customer site survey.		
• 008	Describe the importance of planning when beginning a network upgrade.		
• 009	Describe physical topology considerations when upgrading a network.		
• 010	Describe other considerations when planning an upgrade.		
• 011	Picture graphically the physical and logical layout of networks.		

• 012	Evaluate a network cabling plan.		
Planning the Addressing Structure			
• 013	Describe how (Internet Protocol) IP addressing is implemented in the Local Network (LAN)		
• 014	Calculate and implement a subnet for a given network to allow for efficient use of IP address space.		
• 015	Evaluate and explain how Network Address Translation (NAT) and Port Address Translation (PAT) are used in a network.		
Configuring Network Devices			
• 016	Perform initial configuration of Integrated Services Router (ISR) and switch.		
• 017	Use the Security Device Manager to configure network devices.		
• 018	Use the Command Line Interface (CLI) to configure network devices.		
• 019	Connect the customer premises equipment (CPE) to the ISP.		
Describing Routing			
• 020	Configure and verify internal routing protocols.		
• 021	Describe and Explain interior and Exterior Routing Protocol.		
Exploring ISP Responsibilities			
• 022	Evaluate ISP security considerations.		
• 023	Describe security tools.		
• 023	Describe monitoring and managing the ISP.		
• 025	Describe backups and disaster recovery.		
Exploring ISP Services			
• 026	Describe the ISP services.		
• 027	Describe the protocols that support ISP services.		
• 028	Describe the Domain Name Service (DNS).		
• 029	Enable services and protocols.		
Enhancing Career Exploration and Employability Skills			
• 030	Conduct a job search.		
• 031	Create or update a portfolio containing representative samples of student work.		