



PERRY LOCAL SCHOOLS GUARANTEED AND VIABLE CURRICULUM

Cisco III Networking Academy

THEME:		
STRAND	Business Operations/21st Century	Report Card Language
POWER OBJECTIVE #1	Apply principles of business management and employability in the roles of entrepreneur, manager, and employee to the leadership, planning, developing, and analysis of business enterprises related to the career field.	
SUPPORTING INDICATORS	1.1 [Employability Skills] Develop career awareness and employability skills (e.g., face-to-face, online) needed for gaining and maintaining employment in diverse business settings.	
	1.2 [Leadership and Communication] Process, evaluate, and disseminate information in a business and develop leadership and team collaboration.	
	1.3 [Business Ethics and Law] Analyze how professional, ethical, and legal behavior contributes to continuous improvement in organizational performance and regulatory compliance.	
	1.4 [Knowledge Management and Information Technology] Demonstrate current and emerging strategies and technologies used to collect, analyze, record, and share information in business operations.	
	1.5 [Global Environment] Evaluate how beliefs, values, attitudes, and behaviors influence organizational strategies and goals.	
	1.6 [Business Literacy] Develop foundational skills and knowledge in entrepreneurship, financial literacy, and business operations.	
	1.7 [Entrepreneurship] Analyze the environment in which business operates and the economic factors and opportunities associated with self-employment.	
	1.8 [Operations Management] Plan, organize, and monitor an organization or department to maximize contribution to the organizational goals and objectives.	
	1.9 [Financial Management] Use financial tools, strategies, and systems to develop, monitor, and control the use of financial resources to ensure personal and business financial well-being.	
	1.10 [Sales and Marketing] Manage pricing, place, promotion, packaging, positioning, and public relations to improve quality customer service.	
	1.11 [Principles of Business Economics] Examine and employ economic principles, concepts, and policies to accomplish organizational goals and objectives.	



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POWER OBJECTIVE #2	Apply fundamental principles of informational technology (IT) across the career field.	
SUPPORTING INDICATORS	<i>2.1 Describe the need for security and explain security risks and security safeguards.</i>	
	<i>2.2 Apply networking fundamentals to infrastructure systems.</i>	
	<i>2.3 Explain and describe data encoding basics.</i>	
	<i>2.4 Identify trending technologies, their fundamental architecture, and their value in the marketplace.</i>	
	<i>2.5 Maintain operating systems (OSs).</i>	
	<i>2.6 Install and configure hardware and software.</i>	
	<i>2.7 Explain the fundamentals of delivering information and applications using web architecture.</i>	
	<i>2.8 Describe the fundamentals of databases.</i>	
	<i>2.9 Develop a project concept proposal.</i>	
	<i>2.10 Select, operate, and maintain equipment.</i>	
	<i>2.11 Select and apply troubleshooting methods for problem solving.</i>	
	<i>2.12 Develop performance tests and acceptance plans.</i>	
	<i>2.13 Plan rollout and facilitate handoff to customer.</i>	
STRAND	Information Security	Report Card
POWER OBJECTIVE #3	Select components and mechanisms required for a multilayer defense structure and evaluate and minimize security risks to wired and wireless networks and devices.	
SUPPORTING INDICATORS	<i>3.1 Describe the components associated with information security systems.</i>	
	<i>3.2 Implement and maintain general security compliance.</i>	
	<i>3.3 Implement and maintain network security.</i>	
	<i>3.4 Explain information technology mechanisms as they apply to a multilayer defense structure.</i>	
	<i>3.5 Implement secure wireless networks.</i>	
STRAND		Report Card Language
POWER OBJECTIVE #4	Apply principles of networking and infrastructure related to the installation.	



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SUPPORTING INDICATORS	4.1 <i>Build a multimode network.</i>
	4.2 <i>Describe the Open Systems Interconnection (OSI) standard (International Organization for Standardization [ISO] Standard 7498).</i>
	4.3 <i>Select, assemble, terminate, and test media.</i>
	4.4 <i>Explain wireless communications.</i>
	4.5 <i>Design and implement wireless network solutions.</i>
	4.6 <i>Compare and contrast network protocols.</i>
	4.7 <i>Describe IP addressing schemes and create subnet masks.</i>
	4.8 <i>Describe network architecture.</i>
	4.9 <i>Describe and install network operating systems (Oss).</i>
	4.10 <i>Administer network operating systems and services.</i>
	4.11 <i>Implement a hypervisor [Cloud computing].</i>
	4.12 <i>Design a wide area network (WAN).</i>
	4.13 <i>Recommend disaster recovery and business continuity plans.</i>