CIS 150 Network Technology
Study Guide
COMMUNITY COLLEGE OF PHILADELPHIA
Business and Technology Division

Course Foundations = Successful completion of this course provides some of the foundation in preparation for Comptia Net+ and Cisco CCT Certification examinations. Specific exams and objectives that will be evaluated in this course are identified by the terms and phrases included in this document:

Project Overview and Requirements = After lectures and discussions, students will participate in group project activities. Prior to projects, limited "Hands-On" activities will be performed by students with the assistance of the professor. Group participation will be required to complete a number of activities required in class. Students refusing to work with projects groups will receive a score of "0%" as a project grade.

Required book for class = "Foundations of Network Technology" by Robert Spencer
ISBN-13: 978-1545231548. All but a few items on the study guide are discussed in the textbook. The items which do not appear in the textbook will be experienced thru projects, lecture and student individual research.

Examination Overview and Requirements = Students should expect at least two projects and two examinations. Question type may range from True-False, Matching and Multiple Choice.

Selected Terms, Phrases and Tasks = The following terms, commands, phrases, etc. will be included in CIS 150. **ANY** and **ALL** of the terms **MAY BE ON ANY EXAMINATIONS in this** class. It is recommended that students use the terms below to prepare for lecture, projects and examinations. Please conceptualize the items listed below using the following perspectives:

- "What is it?"
- "What does it look like?"
- "What does it do?"
- "What way can it be used?"

(Exam #1 Items)

1. Certifications
2. Virtual Box
3. VMWare
4. Server
5. Client
6. Ipconfig
7. IP address
8. TCP/IP
9. IPv4 / IPv6
10. CIDR / VLSM
11. Octet
12. Netsh
13. Ifconfig
14. Subnet Mask
15. Default-Gateway
16. DHCP
17. Apipa
18. Protocol
19. Ping-t
20. Pathping
21. ICMP
22. Ctrl+c
23. Tracert
24. Route Print
25. Hostname
26. MAC address
27. Shared Folder
28. Network drive
29. Shared Printer
30. Net share
31. Net use
32. UNC
33. Browser
34. WebUI
35. DNS
36. FQDN
37. URL
38. HTTP

39. HTTPS
40. netstat –a
41. FTP
42. Directory Structure
43. Dir
44. Cls
45. Cd
46. cd\
47. cd ..
48. mkdir
49. rmdir
50. Mget
51. Mput
52. Firewall
53. Authentication
54. Encryption
55. PKI
56. Public Key
57. Private Key
58. NIC
59. Coax
60. Thicknet
61. Thinnet
62. BNC
63. Cat Cable
64. STP
65. UTP
66. Plenum
67. Twisted-Pair
68. Straight
69. Crossed
70. Rolled
71. Console
72. Fiber
73. RJ-45
74. RJ-11
75. 568A and B
76. Hub
77. Switch
78. Router
79. Bandwidth
80. Baseband
81. Broadband
82. 10Base2
83. 10Base5
84. 100BaseT
85. 100BaseTx
86. Logical Topology
87. Physical Topology
88. Ring
89. MAU
90. Bus
91. Star
92. Mesh
93. Bridge
94. Ad-Hoc
95. Infrastructure
96. WLAN
97. SSID
98. LAN
99. MAN
100. WAN
101. Decimal
102. Binary
103. Hexadecimal
104. Number Conversions
105. IP Classes
106. arp –a
107. Nbtstat –a w.x.y.z
108. Software Ports
109. Netstat -a
110. Protocols
111. Terminal Emulators
112. Interface/Port
113. VLAN
114. Switchport Access Vlan #
115. Trunk
116. Sh Run
117. Sh Ip Int Brief
118. Sh run
119. Mac Address-Table
120. Enable
121. Telnet

(Exam #2 Items)

122. DNS
123. DMZ
124. Proxy
125. Demarc
126. ISO
127. RFC
128. OSI Model
129. 802.11's
130. Wireless
131. Cell/Token
132. Packet
133. Ethernet Frame
134. Network Utilities
135. RDP
136. SSH
137. SMTP
138. POP
139. TFTP
140. Cleartext
141. Virus
142. Trojan
143. Hijackware
144. Hackers
145. Crackers
146. DoS
147. Spoofing
148. Brute Force
149. Dictionary Attack
150. Baiting
151. Phishing
152. Social Engineering
153. RFI vs. EMI
154. Baseline
155. IDS
156. IPS
157. VPN