

**ASSESSMENT REPORT  
CENTRAL NEW MEXICO COMMUNITY COLLEGE**

The purpose of this form is to provide a written summary of your assessment results for the current assessment cycle.

Fall, 2011 – Spring 2012  
(Assessment Period Covered)

May 17, 2012  
(Date Report Submitted)

**Choose ONE of the following 3 areas for this assessment report and insert the name of the general education area, certificate, degree or discipline on the appropriate line:**

**See definitions for each category in Assessment Process document**

<b>Gen Ed Area</b> (see definitions)	_____	or	<b>Program</b>	Computer Information Systems, Network Administration Concentration
AA/AS AAS	<input type="checkbox"/> <input type="checkbox"/>		Certificate AA/AS AAS	<input type="checkbox"/> <input type="checkbox"/> <input checked="" type="checkbox"/>
<b>Or Discipline Area</b> (see definitions)	_____			

Outcome(s) assessed:

1. Use network protocol models to explain the layers of communications in data networks.
2. Employ basic cabling and network designs to connect devices in accordance with stated objectives.
3. Develop a logical diagram and translate it to a physical implementation.
- 4 Demonstrate network mathematical literacy both in theory and application as it applies to networks.
- 5 Design, address, construct and test LANs containing multiple VLANs as well as wireless devices.
- 6 Design, address, construct and test WAN topologies selecting from current networking technologies
- 7 Demonstrate the practical application of skills needed to design, implement, and support network security.
- 8 Demonstrate problem solving ability with data networks.
- 9 Linux: Students will demonstrate how to install, configure, create user accounts, issue correct commands and options, and perform standard network administration.

Type of tool (for each tool listed above, indicate type of tool):

Outcomes 1-8 CIS Network Administration students were assessed in their final semester via the CIS 2999 Capstone course.

Outcome 9: All CIS concentrations which require Linux in their program, will report Linux assessment results. This assessment information reflects all CIS students who take the Linux course.

**BOB, DESCRIBE THIS WHAT YOU DID for each of the outcomes 1-8 ?????**

Students were assessed via two different methods in their Capstone Project:

- 1) The student was assigned a skills test in which they have to simulate a company with complex network requirements. The student has to design the network, select the appropriate devices, connect and configure them, and demonstrate to the instructor that it functions correctly. DIRECT methods were used to assess student performance. (1-8)
- 2) The second part of the Capstone project required the student to complete a comprehensive written exam that fairly measures their comprehension and preparedness to complete an industry recognized certification exam. EXTERNAL methods were used to assess student performance.

**THIS IS WHAT WE NEED FOR THE LINUX STUFF**

Outcome 9: (Linux) Direct (individual student performance) using an Internal tool (debugging exams created by full-time network faculty.)

Achievement Target (if more than one measurement tool, list target for each tool separately):

Outcomes 1-8: The Network Administration exit competencies are evaluated using a Rubrics with a scale of 4=excellent, 3=good, 2=fair and 1=poor. We believe a score of 3+ for 75% of our students represents success in accomplishing our goals.

Outcomes 9: Several CIS concentrations incorporate the Linux course in its area of studies. Our achievement target for all Linux students (for all concentrations requiring this course) is 80%+ on the assessment skills exam.

Assessment Results/Findings (if more than one measurement tool, list results for each tool separately):

Outcomes 1-8: A total of **12** Network Administration students completed the Network Administration assessment activities in the Capstone course in Fall, 2011 and Spring 2012. Here are the results.

	COMP 1	COMP 2	COMP 3	COMP 4	COMP 5	COMP 6	COMP 7	COMP 8
SCORE	Protocols	Design	Document	Net Math	LAN VLANs	WANs	Security	Trouble Shooting
4	5	5	12	5	5	5	5	2
3.5								
3	6	6		7	6	7	7	10
2.5	1	1			1			
2.0								
1.0								

Using the Achievement Target of 3+ criteria for 75% of our students, the raw data is:

	COMP 1	COMP 2	COMP 3	COMP 4	COMP 5	COMP 6	COMP 7	COMP 8
SCORE	Protocols	Design	Document	Net Math	LAN VLANs	WANs	Security	Trouble Shooting
3+	11	11	12	12	11	12	12	12
<3	1	1			1			
Meet Target3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

**NOTE TO CIS PEOPLE.... JOHN AND I NEED TO PUT TOGETHER THE LINUX DATA. IT'LL GO HERE. I'LL CUT/PASTE IT INTO THE RELEVANT CONCENTRATIONS.**

Action Plan (close the loop):



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CENTRAL NEW MEXICO COMMUNITY COLLEGE**

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Fall, 2011 – Spring 2012  
(Assessment Period Covered)

June 20, 2012  
(Date Report Submitted)

**Choose ONE of the following 3 areas for this assessment report and insert the name of the general education area, certificate, degree or discipline on the appropriate line:**

**See definitions for each category in Assessment Process document**

<p><b>Gen Ed Area</b> (see definitions) _____</p>	or	<p><b>Program</b> _____</p>	
<p>AA/AS <input type="checkbox"/></p> <p>AAS <input type="checkbox"/></p>		<p>Certificate</p> <p>AA/AS</p> <p>AAS</p>	<p>Computer Information Systems, Network Administration Concentration</p> <p><input type="checkbox"/></p> <p><input type="checkbox"/></p> <p><input checked="" type="checkbox"/></p>
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Outcome(s) assessed:

1. Use network protocol models to explain the layers of communications in data networks.
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9. Linux: Students will demonstrate how to install, configure, create user accounts, issue correct commands and options, and perform standard network administration.

Classes/Cohort Assessed:

Outcomes 1-8 CIS Network Administration students were assessed in their final semester via the CIS 2999 Capstone course.

Outcome 9: All CIS concentrations which require Linux in their program, will report Linux assessment results. This assessment information reflects all CIS students who take the Linux course.

Measurement tool(s):

Students were assessed via two different methods in their Capstone Project. DIRECT methods measured student individual performance in their hands on skills test.(1-8)

Students were measured via EXTERNAL methods in the written portion of the Capstone Project. (1-8)

Outcome 9: (Linux) Direct (individual student performance) using an Internal tool (debugging exams created by full-time network faculty.)

Type of tool (for each tool listed above, indicate type of tool):

(see above)

Outcome 9: (Linux) Direct (individual student performance) using an Internal tool (debugging exams created by full-time network faculty.)

Achievement Target (if more than one measurement tool, list target for each tool separately):

Outcomes 1-8: The Network Administration exit competencies are evaluated using a Rubrics with a scale of 4=excellent, 3=good, 2=fair and 1=poor. We believe a score of 3+ for 75% of our students represents success in accomplishing our goals.

Outcomes 9: Several CIS concentrations incorporate the Linux course in its area of studies. Our achievement target for all Linux students (for all concentrations requiring this course) is 80%+ on the assessment skills exam for 75% of our students.

Assessment Results/Findings (if more than one measurement tool, list results for each tool separately):

Outcomes 1-8: A total of **12** Network Administration students completed the Network Administration assessment activities in the Capstone course in Fall, 2011 and Spring 2012. Here are the results.

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SCORE	Protocols	Design	Document	Net Math	LAN VLANs	WANs	Security	Trouble Shooting
3+	11	11	12	12	11	12	12	12
<3	1	1			1			
Meet Target3	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Outcome 9: Linux Results

A total of 109 students took the Linux skills exam. This encompasses 7 of the 8 sections (1 section the instructor did not give the exam).

SUCCESS SCORE	RAW TOTAL (OUT OF 109)	%
EXCELLENT 90-100 4	60	55.05
GOOD 80-89 3	18	16.51
FAIR 70-70 2	14	12.84
POOR 69 OR LESS	17	15.60
<b>TOTAL SCORES 3 +</b>	<b>78/109</b>	<b>71.56</b>

Meet target of 80%, score of 3 or 4 for 75% of our students? No.

Action Plan (close the loop):

The Network Admin faculty believes that the capstone skills exam and written exam outcomes accurately reflect student performance. Since the curriculum and exams are tied to the CISCO Academy standard curriculum, there are no plans for changing until the Academy changes and updates curriculum.

The Linux faculty are planning to evaluate the Linux skills exam to be sure it is an accurate measure of the student learning outcomes, and that the test is administered consistently across all sections. A new book has been selected for the course, which will aid in the skills preparation and exam procedure.