

**Course Assessment Report**  
**Washtenaw Community College**

Discipline	Course Number	Title
Computer Networking Technology	100	CNT 100 08/06/2016- Introduction to Windows Networking
Division	Department	Faculty Preparer
Business and Computer Technologies	Computer Instruction	Michael Galea
Date of Last Filed Assessment Report		

**I. Assessment Results per Student Learning Outcome**

Outcome 1: Identify basic networking concepts.

- Assessment Plan
  - Assessment Tool: Multiple choice exam provided by Certiport
  - Assessment Date: Fall 2016
  - Course section(s)/other population: All sections
  - Number students to be assessed: All students
  - How the assessment will be scored: External evaluation by Certiport
  - Standard of success to be used for this assessment: 70% of students will score 75% or better
  - Who will score and analyze the data: Certiport will score the exam. Faculty will analyze the results.

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
2015, 2014	2016, 2015	2015, 2014

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
174	174

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

The number of students assessed match.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

This report includes all sections. The bulk of the sections were blended, the remaining online. Please see attached report for more information.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

All assessments were delivered by a third-party, Certiport. The attached report shows results for pre-tests and post-tests for each session in each Unit. Assessments are multiple-choice.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: Yes

Three post-tests were associated with this outcome. The success rates were 88.8%, 93.9%, and 95.3% respectively for Session 1 through 3.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

The three pre-tests for this outcome average about 31%, the post-tests 92%. This means learning occurred that far exceeds the standard defined for this outcome. Further this implies that the content provided by Certiport is of more than sufficient quality. Please see attached report for additional information.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

The curriculum content is controlled by Certiport. We provide and will continue to provide support including online meetings and on-campus tutoring to provide the student with all tools necessary to achieve success.

Outcome 2: Identify features and functions of the Windows workstation Operating System.

- Assessment Plan
  - Assessment Tool: Multiple choice exam provided by Certiport
  - Assessment Date: Fall 2016
  - Course section(s)/other population: All sections
  - Number students to be assessed: All students
  - How the assessment will be scored: External evaluation by Certiport
  - Standard of success to be used for this assessment: 70% of students will score 75% or better
  - Who will score and analyze the data: Certiport will score the exam. Faculty will analyze the results.

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
2015, 2014	2015, 2016	2015, 2014

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
174	174

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

The number of students match.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

This report includes all sections. The bulk of the sections were blended, the remaining online. Please see attached report for more information.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

All assessments were delivered by a third-party, Certiport. The attached report shows results for pre-tests and post-tests for each session in each unit. Assessments are multiple-choice.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: Yes

Four post-tests were associated with this outcome. The success rates were 83.6%, 87.7%, 89.1%, and 87.4% respectively for session 1 through 4.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

The four pre-tests for this outcome averaged about 25.5%, the post-tests 86.9%. Please see attached report for additional information.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

The curriculum content is controlled by Certiport. We provide and will continue to provide support including online meetings and on-campus tutoring to provide the student with all tools necessary to achieve success.

### Outcome 3: Identify features and functions of Windows Server.

- Assessment Plan
    - Assessment Tool: Multiple choice exam provided by Certiport
    - Assessment Date: Fall 2016
    - Course section(s)/other population: All sections
    - Number students to be assessed: All students
    - How the assessment will be scored: External evaluation by Certiport
    - Standard of success to be used for this assessment: 70% of students will score 75% or better
    - Who will score and analyze the data: Certiport will score the exam. Faculty will analyze the results.
1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
2015, 2014	2016, 2015	2015, 2014

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
174	174

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

The number of students match.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

This report includes all sections. The bulk of the sections were blended, the remaining online. Please see attached report for more information.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

All assessments were delivered by a third-party, Certiport. The attached report shows results for pre-tests and post-tests for each session in each unit. Assessments are multiple-choice.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: Yes  
 Three post-tests were associated with this outcome. The success rates were 78.6%, 82.8%, and 89.6% respectively for session 1 through 3.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

The three pre-tests for this outcome averaged about 25.2%, the post-tests 80.2%. This means learning occurred that exceeds the standard defined for this outcome. Performance on the post-tests for this outcome is lower than for outcome 1 and 2 since the content is more challenging. Please see attached report for additional information.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

The curriculum content is controlled by Certiport. We provide and will continue to provide support including online meetings and on-campus tutoring to provide the student with all tools necessary to achieve success.

Outcome 4: Identify security and protection mechanism available in Windows Operating Systems.

- Assessment Plan
  - Assessment Tool: Multiple choice exam provided by Certiport
  - Assessment Date: Fall 2016
  - Course section(s)/other population: All sections
  - Number students to be assessed: All students
  - How the assessment will be scored: External evaluation by Certiport
  - Standard of success to be used for this assessment: 70% of students will score 75% or better
  - Who will score and analyze the data: Certiport will score the exam. Faculty will analyze the results.

1. Indicate the Semester(s) and year(s) assessment data were collected for this report.

Fall (indicate years below)	Winter (indicate years below)	SP/SU (indicate years below)
2015, 2014	2016, 2015	2015, 2014

2. Provide assessment sample size data in the table below.

# of students enrolled	# of students assessed
174	174

3. If the number of students assessed differs from the number of students enrolled, please explain why all enrolled students were not assessed, e.g. absence, withdrawal, or did not complete activity.

The number of students match.

4. Describe how students from all populations (day students on campus, DL, MM, evening, extension center sites, etc.) were included in the assessment based on your selection criteria.

This report includes all sections. The bulk of the sections were blended, the remaining online. Please see attached report for more information.

5. Describe the process used to assess this outcome. Include a brief description of this tool and how it was scored.

All assessments were delivered by a third-party, Certiport. The attached report shows results for pre-tests and post-tests for each session in each unit. Assessments are multiple-choice.

6. Briefly describe assessment results based on data collected for this outcome and tool during the course assessment. Discuss the extent to which students achieved this learning outcome and indicate whether the standard of success was met for this outcome and tool.

Met Standard of Success: Yes

Three post-tests were associated with this outcome. The success rates were 83.3%, 88.9%, and 92.0% respectively for Session 1 through 3.

7. Based on your interpretation of the assessment results, describe the areas of strength in student achievement of this learning outcome.

The three pre-tests for this outcome averaged about 20.6%, the post-tests 88%. This means learning occurred that exceeds the standard defined for this outcome.

8. Based on your analysis of student performance, discuss the areas in which student achievement of this learning outcome could be improved. If student met standard of success, you may wish to identify your plans for continuous improvement.

The curriculum content is controlled by Certiport. We provide and will continue to provide support including online meetings and on-campus tutoring to provide the student with all tools necessary to achieve success.

## II. Course Summary and Action Plans Based on Assessment Results

1. Describe your overall impression of how this course is meeting the needs of students. Did the assessment process bring to light anything about student achievement of learning outcomes that surprised you?

Given that many of the students had little experience with networking and Windows networking; I was surprised at the success rates for those students completing the post-tests. Albeit the number of students attempting certification tests is less than 50%; I am very pleased with the number of students who became certified. For students pursuing employment in this field, MTA certification and other certifications are important in securing that first job.

- Describe when and how this information, including the action plan, was or will be shared with Departmental Faculty.

This report will be provided to the Department at the next meeting during In-service.

- Intended Change(s)

Intended Change	Description of the change	Rationale	Implementation Date
Course Materials (e.g. textbooks, handouts, on-line ancillaries)	Technology changes will drive changes in this curriculum. I expect to see new curriculum for Certiport in the next 12 months.	Technology changes.	17

- Is there anything that you would like to mention that was not already captured?

5.

### III. Attached Files

[Assessment Report](#)

**Faculty/Preparer:** Michael Galea **Date:** 08/30/2016  
**Department Chair:** Philip Geyer **Date:** 10/18/2016  
**Dean:** Kimberly Hurns **Date:** 10/23/2016  
**Assessment Committee Chair:** Michelle Garey **Date:** 11/09/2016