

NORTHEASTERN TECHNICAL COLLEGE

Business Division

Administrative Office Technology Department



AOT 210 - Document Production

- Module 1: Developing Business Documents with Word
- Module 2: Designing Presentations with PowerPoint
- Module 3: Creating Spreadsheets with Excel
- Module 4: Integrating Word, PowerPoint, and Excel
- Module 5: Creating Publications with Publisher
- Module 6: Designing Databases with Access
- Module 7: Integrating All Microsoft Office Applications

Business Division
Administrative Office Technology
Department

Prepared by: Chris Smith



AOT 210 - Document Production

Module 3: Creating Spreadsheets with Excel

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Description of Course

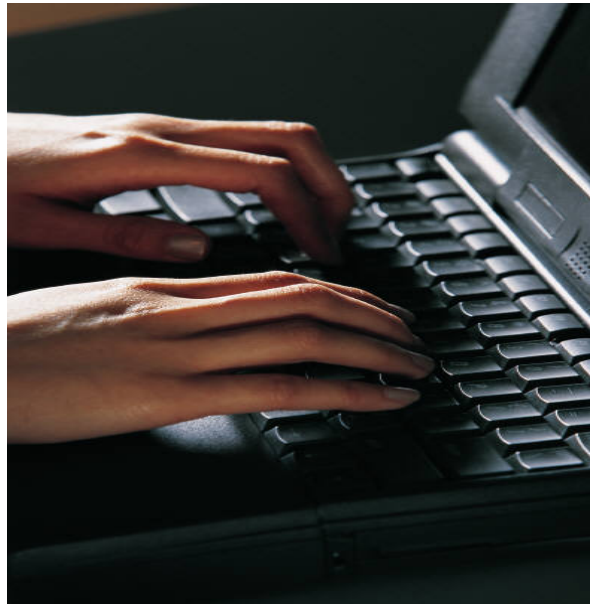
AOT 210 emphasizes the production of documents found in typical business offices. The major focus is on productivity and excellence in document production.

Purpose of Course

To learn advanced skills, advanced speed on timed writings, and to develop greater accuracy. To advance students to the point of being able to make decisions in placement of margins and tabulations without textbook or instructor assistance. Emphasis is placed on proofreading all material and reaching a minimum goal of 50 wpm for five-minutes within a five-error limit by the end of the semester.

Description of Module 3

In Module 3 the student will learn to create a wide variety of worksheets by entering text, values, formulas, and functions. They will learn to format worksheets using many Excel formats as well as the Word formats they have already learned. They will learn to modify workbooks, use styles, filter data in worksheets, and create charts. Students will also learn to integrate Excel with Word and PowerPoint.



Introduction

Students will be completing various documents and projects dealing with a variety of office applications including word processing, spreadsheet, database, and presentation software. They will also deal with Web Page creation, graphics, email, and Internet research and activities.

In addition to textbook assignments, students will have to complete practice timed writings each week. They will be required to pass five timed writings by the end of the semester. Timed writings will be done after completing all the documents and/or projects required for a particular module.

Getting Started

In Module 3 the student will learn to create a wide variety of worksheets by entering text, values, formulas, and functions. They will learn to format worksheets using many Excel formats as well as the Word formats they have already learned. They will learn to modify workbooks, use styles, filter data in worksheets, and create charts. Students will also learn to integrate Excel with Word and PowerPoint.

Each module must be completed in order. Below is a list of the modules:

Module Title	Percentage of Course Grade
Module 1: Developing Business Documents with Word	20%
Module 2: Designing Presentations with PowerPoint	10%
Module 3: Creating Spreadsheets with Excel	10%
Module 4: Integrating Word, PowerPoint, and Excel	20%
Module 5: Creating Publications with Publisher	10%
Module 6: Designing Databases with Access	10%
Module 7: Integrating All Microsoft Office Applications	20%

Attendance Policies

Day students will be required to meet class for one and a half hours two days a week for fifteen weeks. Night students will be required to meet class for two hours and forty-five minutes one night a week for fifteen weeks. Day students will be allowed to miss a maximum of six class meetings during the semester. Night students will be allowed to miss a maximum of three class meetings during the semester. Once a student goes over the allowed absences, he/she will be dropped from class rolls for excessive absences with the grade of "F".

Attendance Policies continued

There are no excused absences except those **verified** by other instructors for field trips or school related activities. A student with a doctor's excuse will be able to make up missed work, but the absence will still count towards the maximum number of absences allowed.

Students will be considered tardy if he/she arrives for class after the instructor has checked roll. Three tardies will count as one absence for day students. Time missed for night students will be accumulated until an even hour has been missed. Students should strive to get to class on time each day.

Credit Awarded

Upon satisfactory completion of **all eight modules**, the student will earn three semester hours of credit. Students must earn a minimum of 77 on Module 3 before advancing on to Module 4.

Students must complete the requirements for Module 3 before advancing to Module 4.

Module 3 Title	Lessons Covered	Projects Covered	Due Date	Percentage of Module Grade
Creating Spreadsheets with Excel	1 - 8	5 & 6	<u>Day-Due Beginning of class</u> March 5, 2012 <u>Night-Due Beginning of Class</u> March 5, 2012	Lessons - 50% Projects - 40% Timed Writing - 10%

Method of Instruction

Students should complete all reading exercises in their textbook before beginning the assigned documents and/or projects. The reading can be completed outside of class. Once the student has completed the reading exercises, they are to complete the assigned documents and/or projects. All assigned documents and/or projects should be printed and turned in for grading. Each document will be given a numeric grade. All documents and projects will be averaged together to come up with the module grade.

Technology Requirements

Students will be allowed to do assignments at home or at one of the NETC community campus sites. All assignments must be completed using Microsoft Office 2010 software. **All assignments for the module must be turned in no later than the due date. No assignment will be accepted after the due date.** Students will be allowed to work on test timed-writings no longer than one week.

Materials Required

Students must purchase the following textbook:

Integrated Computer Applications, Microsoft Office 2010, 6th Edition. Written by Susie H. VanHuss, Ph.D., Connie M. Forde, Ph.D., and Donna L. Woo, Ph.D. Published by South-Western, Cengage Learning, Copyright 2012.

USB 2.0 Flash Drive for saving assignments/files

Resources

The following items will be available for student use but must remain in the AOT Lab at all times.

Dictionary
Word Division Handbook
Secretarial Handbook

Prerequisite Skills

Completion of AOT 110 and AOT 267 with a grade of "C" or better.

Student Time Commitment

Students will be required to meet class for two and a half hours each week. Students should be aware that they might need to spend extra time in the lab to complete the necessary course assignments.

Instructor Contact Information

Instructor: Chris Smith
Office location: Room 703A
Office phone: (843) 921-6974 (if no answer, leave message on my voice mail)
E-mail address: csmith@netc.edu

Class/Office schedule is posted on office door. If the office hours listed is not convenient, please call or e-mail me for an appointment.

Documentation of Completion

Documentation will be given for completion of this module when the student has satisfactorily completed the requirements for this module (lessons and projects) with a grade of 77 (C or better).

Student Learning Outcomes (expected performance outcomes, level of proficiency)

1. Create, edit, and format worksheets.
2. Create and revise formulas.
3. Print worksheets.
4. Modify workbooks.
5. Create and modify charts.
6. Demonstrate how to use the advanced features of Excel.
7. Demonstrate how to integrate Excel with Word and PowerPoint software.
8. Prepare a variety of business documents integrating multiple software applications.
9. Apply critical-thinking skills to make effective decisions and solve business problems creatively.
10. Work independently and with few instructions.
11. Be creative as you determine ways to increase productivity by being both efficient and more effective.
12. Complete documents in a timely manner.
13. Demonstrate how to be resourceful in obtaining, organizing, analyzing, evaluating, and managing information.
14. Apply communications and interpersonal skills.
15. Be able to key at least 50 words per minute on a five-minute timed writing by the end of the semester.

Lesson 1**Performance Outcomes** --

- ❖ Be able to create a worksheet.
- ❖ Be able to change column width.
- ❖ Be able to add and rename sheet tabs.
- ❖ Be able to move within a worksheet.
- ❖ Be able to select cells.
- ❖ Be able to work independently and with few instructions.

Content -- Students will be expected to read the lesson material and complete all the assigned documents in the lesson. Once the student completes the documents, he/she should print them for grading. Students should hold all documents until all of them have been completed for the entire lesson and then turn them in for grading. All lesson documents and/or projects should be turned in for grading before advancing to the next module.

Projects/Assignments --

Lesson	Pages	Worksheets
1	EX-104 - EX-110	1

Assessment (e.g., paper/pencil, skills) - Each document should be completed in order. Once it has been completed, it should be printed for grading. Students should hold all documents until all of them have been completed for the entire lesson and then turn them in for grading. Exercises that require research on the Internet must be typed. The students will receive a numeric grade on each document and/or project. Two points will be deducted for each error found in documents. Lesson documents will count as 60% of the module grade and project documents will count as 40% of the module grade. Students should do a practice timed writing before advancing to the next module.

Lesson 2**Performance Outcomes** --

- ❖ Be able to merge and center cells.
- ❖ Be able to insert and delete rows, columns, and cells.
- ❖ Be able to apply themes and cell styles.
- ❖ Be able to format numbers.
- ❖ Be able to work independently and with few instructions.

Content -- Students will be expected to read the lesson material and complete all the assigned documents in the lesson. Once the student completes the documents, he/she should print them for grading. Students should hold all documents until all of them have been completed for the entire lesson and then turn them in for grading. All lesson documents and/or projects should be turned in for grading before advancing to the next module.

Projects/Assignments --

Lesson	Pages	Worksheets
2	EX-111 - EX-117	2 & 3

Assessment (e.g., paper/pencil, skills) - Each document should be completed in order. Once it has been completed, it should be printed for grading. Students should hold all documents until all of them have been completed for the entire lesson and then turn them in for grading. Exercises that require research on the Internet must be typed. The students will receive a numeric grade on each document and/or project. Two points will be deducted for each error found in documents. Lesson documents will count as 60% of the module grade and project documents will count as 40% of the module grade. Students should do a practice timed writing before advancing to the next module.

Lesson 3**Performance Outcomes** --

- ❖ Be able to create formulas in a worksheet.
- ❖ Be able to insert functions in a worksheet.
- ❖ Be able to use relative and absolute cell references.
- ❖ Be able to work independently and with few instructions.

Content -- Students will be expected to read the lesson material and complete all the assigned documents in the lesson. Once the student completes the documents, he/she should print them for grading. Students should hold all documents until all of them have been completed for the entire lesson and then turn them in for grading. All lesson documents and/or projects should be turned in for grading before advancing to the next module.

Projects/Assignments --

Lesson	Pages	Worksheets
3	EX-118 - EX-123	4 - 7

Assessment (e.g., paper/pencil, skills) - Each document should be completed in order. Once it has been completed, it should be printed for grading. Students should hold all documents until all of them have been completed for the entire lesson and then turn them in for grading. Exercises that require research on the Internet must be typed. The students will receive a numeric grade on each document and/or project. Two points will be deducted for each error found in documents. Lesson documents will count as 60% of the module grade and project documents will count as 40% of the module grade. Students should do a practice timed writing before advancing to the next module.

Lesson 4**Performance Outcomes** --

- ❖ Be able to add a header and footer to a worksheet.
- ❖ Be able to make page adjustments for professional printing.
- ❖ Be able to work independently and with few instructions.

Content -- Students will be expected to read the lesson material and complete all the assigned documents in the lesson. Once the student completes the documents, he/she should print them for grading. Students should hold all documents until all of them have been completed for the entire lesson and then turn them in for grading. All lesson documents and/or projects should be turned in for grading before advancing to the next module.

Projects/Assignments --

Lesson	Pages	Worksheets
4	EX-124 - EX-127	8 & 9

Assessment (e.g., paper/pencil, skills) - Each document should be completed in order. Once it has been completed, it should be printed for grading. Students should hold all documents until all of them have been completed for the entire lesson and then turn them in for grading. Exercises that require research on the Internet must be typed. The students will receive a numeric grade on each document and/or project. Two points will be deducted for each error found in documents. Lesson documents will count as 60% of the module grade and project documents will count as 40% of the module grade. Students should do a practice timed writing before advancing to the next module.

Project 5

Performance Outcomes --

- ❖ Be able to create and format professional Excel worksheets.
- ❖ Be able to prepare effective Word documents.
- ❖ Be able to coordinate themes and designs in documents and worksheets.
- ❖ Be able to work with very limited supervision.

Content -- Students will be expected to read the project material and complete all the assigned documents in the project. Once the student completes the documents, he/she should print them for grading. Students should hold all documents until all of them have been completed for the entire project and then turn them in for grading. All lesson documents and/or projects should be turned in for grading before advancing to the next module.

Projects/Assignments --

Project	Pages	Jobs
5	EX-128 - EX-132	1 - 6

Assessment (e.g., paper/pencil, skills) - Each document should be completed in order. Once it has been completed, it should be printed for grading. Students should hold all documents until all of them have been completed for the entire lesson and then turn them in for grading. Exercises that require research on the Internet must be typed. The students will receive a numeric grade on each document and/or project. Two points will be deducted for each error found in documents. Lesson documents will count as 60% of the module grade and project documents will count as 40% of the module grade. Students should do a practice timed writing before advancing to the next module.

Lesson 5**Performance Outcomes** --

- ❖ Be able to create a chart as a new sheet and as an embedded object.
- ❖ Be able to format a chart attractively.

Content -- Students will be expected to read the lesson material and complete all the assigned documents in the lesson. Once the student completes the documents, he/she should print them for grading. Students should hold all documents until all of them have been completed for the entire lesson and then turn them in for grading. All lesson documents and/or projects should be turned in for grading before advancing to the next module.

Projects/Assignments --

Lesson	Pages	Worksheets
5	EX-133 - EX-137	10 - 11

Assessment (e.g., paper/pencil, skills) - Each document should be completed in order. Once it has been completed, it should be printed for grading. Students should hold all documents until all of them have been completed for the entire project and then turn them in for grading. Exercises that require research on the Internet must be typed. The students will receive a numeric grade on each document and/or project. Two points will be deducted for each error found in documents. Lesson documents will count as 60% of the module grade and project documents will count as 40% of the module grade. Students should do a practice timed writing before advancing to the next module.

Lesson 6**Performance Outcomes** --

- ❖ Be able to sort data in a worksheet.
- ❖ Be able to filter data in a worksheet.

Content -- Students will be expected to read the lesson material and complete all the assigned documents in the lesson. Once the student completes the documents, he/she should print them for grading. Students should hold all documents until all of them have been completed for the entire lesson and then turn them in for grading. All lesson documents and/or projects should be turned in for grading before advancing to the next module.

Projects/Assignments --

Lesson	Pages	Worksheets
6	EX-138 - EX-141	12 & 13

Assessment (e.g., paper/pencil, skills) - Each document should be completed in order. Once it has been completed, it should be printed for grading. Students should hold all documents until all of them have been completed for the entire lesson and then turn them in for grading. Exercises that require research on the Internet must be typed. The students will receive a numeric grade on each document and/or project. Two points will be deducted for each error found in documents. Lesson documents will count as 60% of the module grade and project documents will count as 40% of the module grade. Students should do a practice timed writing before advancing to the next module.

Lesson 7**Performance Outcomes** --

- ❖ Be able to create a PivotTable.
- ❖ Be able to filter a PivotTable.

Content -- Students will be expected to read the lesson material and complete all the assigned documents in the lesson. Once the student completes the documents, he/she should print them for grading. Students should hold all documents until all of them have been completed for the entire lesson. Once all the documents and/or projects have been completed for the module, they should be turned in for grading before advancing to the next module.

Projects/Assignments --

Lesson	Pages	Worksheets
7	EX-142 - EX-145	14 & 15

Assessment (e.g., paper/pencil, skills) - Each document should be completed in order. Once it has been completed, it should be printed for grading. Students should hold all documents until all of them have been completed for the entire lesson and then turn them in for grading. Exercises that require research on the Internet must be typed. The students will receive a numeric grade on each document and/or project. Two points will be deducted for each error found in documents. Lesson documents will count as 60% of the module grade and project documents will count as 40% of the module grade. Students should do a practice timed writing before advancing to the next module.

Lesson 8**Performance Outcomes** --

- ❖ Be able to create 3-D cell references in formulas.

Content -- Students will be expected to read the lesson material and complete all the assigned documents in the lesson. Once the student completes the documents, he/she should print them for grading. Students should hold all documents until all of them have been completed for the entire lesson and then turn them in for grading. All lesson documents and/or projects should be turned in for grading before advancing to the next module.

Projects/Assignments --

Lesson	Pages	Worksheet
8	EX-146 - EX-147	16

Assessment (e.g., paper/pencil, skills) - Each document should be completed in order. Once it has been completed, it should be printed for grading. Students should hold all documents until all of them have been completed for the entire lesson and then turn them in for grading. Exercises that require research on the Internet must be typed. The students will receive a numeric grade on each document and/or project. Two points will be deducted for each error found in documents. Lesson documents will count as 60% of the module grade and project documents will count as 40% of the module grade. Students should do a practice timed writing before advancing to the next module.

Project 6

Performance Outcomes --

- ❖ Be able to create and format professional Excel worksheets.
- ❖ Be able to prepare effective Word documents.
- ❖ Be able to link Excel chart in PowerPoint presentation.
- ❖ Be able to work with very limited supervision.

Content -- Students will be expected to read the project material and complete all the assigned documents in the project. Once the student completes the documents, he/she should print them for grading. Students should hold all documents until all of them have been completed for the entire project and then turn them in for grading. All lessons and/or projects should be turned in for grading before advancing to the next module.

Projects/Assignments --

Project	Pages	Jobs
6	EX-148 - EX-152	1 - 11

Assessment (e.g., paper/pencil, skills) - Each document should be completed in order. Once it has been completed, it should be printed for grading. Students should hold all documents until all of them have been completed for the entire project and then turn them in for grading. Exercises that require research on the Internet must be typed. The students will receive a numeric grade on each document and/or project. Two points will be deducted for each error found in documents. Lesson documents will count as 60% of the module grade and project documents will count as 40% of the module grade. Students should do a practice timed writing before advancing to the next module.

How to Turn in Lessons

1. Name in upper right corner; include project number and exercise number.
2. Do not combine lessons/documents on the same page. **Start each lesson/document on a separate page.**
3. Staple lessons/projects in upper left corner. Do not staple different lessons/projects together.
4. **BE A GOOD PROOFREADER! When you feel your work is perfect, CHECK IT ONE MORE TIME.**



Evaluation of Module

Once a student completes the lessons and projects assigned for this module, they need to do a timed writing for a grade. Students need to key at least 50 words per minute on a 5-minute timed writing with no more than 5 errors. The timed writing grade will be determined by the following scale.

62 - 65 wpm = 100

58 - 61 wpm = 90

54 - 57 wpm = 80

50 - 53 wpm = 70

45 - 49 wpm = 60

The grade for Module 3 will be determined by the following guidelines:

Module 3 Title	Lessons Covered	Projects Covered	Due Date	Percentage of Module Grade
Creating Spreadsheets with Excel	1 - 8	5 & 6	<u>Day-Due Beginning of Class</u> March 5, 2012 <u>Night-Due Beginning of Class</u> March 5, 2012	Lessons-50% Projects-40% Timed Writing-10%

Evaluation of Module continued

The following scale will determine course grade:

Module Title	Percentage of Course Grade
Module 1: Developing Business Documents with Word	20%
Module 2: Designing Presentations with PowerPoint	10%
Module 3: Creating Spreadsheets with Excel	10%
Module 4: Integrating Word, PowerPoint, and Excel	20%
Module 5: Creating Publications with Publisher	10%
Module 6: Designing Databases with Access	10%
Module 7: Integrating All Microsoft Office Applications	20%

Final grade for the course will be determined by the following grading scale:

93-100	A
85-92	B
77-84	C
70-76	D
69 or below	F