PERFORMANCE INDICATORS AND STANDARDS OBJECTIVES AND CURRICULUM GUIDE SHEETS

Academic Foundations for Careers

Occupational Communications

- A. Understand the importance of effective communication skills in the workplace.
 - 1. Use written communication skills in the workplace
 - A101 Describe the advantages a written message may have over a spoken one
 - A102 Comprehend written communications in the workplace
 - A103 Compare and contrast different forms of written business communication as utilized in the workplace
 - A104 Create print and non-print communications for various audiences and for a variety of purposes
 - A105 Demonstrate proficiency in writing standard English.
 - 2. Use oral communication skills in the workplace
 - A201 Demonstrate listening strategies that improve understanding and performance on the job
 - A202 Comprehend and give oral instructions in a business like manner as related to the workplace
 - A203 Demonstrate proper business etiquette in placing/receiving telephone calls and recording telephone messages
 - A204 Participate in informal presentations and discussions.
 - A205 Demonstrate proficiency in speaking standard English.

Occupational Mathematical Computations

- B. Understand the importance of effective mathematical computation skills in the workplace.
 - 1. Perform appropriate mathematical calculations in work-related situations.
 - B101 Compute addition, subtraction, multiplication, and division problems as related to the workplace
 - B102 Compute addition, subtraction, multiplication, and division of decimal number problems as related to the workplace

- B103 Interpret quantitative information from tables, charts, and graphs as related to the workplace
- B104 Compute ratios and percentages as related to the workplace
- B105 Calculate distance, weight, area, volume, and/or time problems as related to the workplace
- B106 Determine costs, time, and/or resources needed to complete a task within the workplace.

Academic Foundations for Careers – AFC A1

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Topic	Occupational Communications
Performance Indicator	A. Understand the importance of effective communication skills in the workplace.
Standard	Use written communication skills in the workplace
SCANS	Information 7; Basic Skills 1, 2
Show-Me Standards	1.5; 2.1; 2.2; 2.5; 2.7; CA1, 3, 4, 5
Objectives	A101 Describe the advantages a written message may have over a spoken one A102 Comprehend written communications in the workplace A103 Compare and contrast different forms of written business communication as utilized in the workplace A104 Create print and non-print communications for various audiences and for a variety of purposes A105 Demonstrate proficiency in writing standard English.
Sample Activities	With the permission of your supervisor or manager, bring to class a memo or other written communication generated at your workplace. Identify for the class the purpose of the written communication, why it was necessary to put the information in writing as opposed to oral communication, and what the communication requests. Write a set of operational policies for an aspect of your job. Submit the policies to your supervisor for review. Prepare a ten minute presentation for middle school students on your job. Include skills and education preparation required, benefits to you and the community, how the job can contribute to your career plans, and the benefits of cooperative education in preparing for a career. Identify four forms of written communication at your workplace. Discuss the purpose of the communication, why the particular form of written communication is appropriate, and how the communication could be improved.

Academic Foundations for Careers – AFC A2

Topic	Occupational Communications
Performance Indicator	A. Understand the importance of effective communication skills in the workplace.
Standard	Use oral communication skills in the workplace
SCANS	Information 7; Basic Skills 5, 6
Show-Me Standards	1.7; 2.1; 2.3; 2.7; CA1, 6
Objectives	A201 Demonstrate listening strategies that improve understanding and performance on the job A202 Comprehend and give oral instructions in a business like manner as related to the workplace A203 Demonstrate proper business etiquette in placing/receiving telephone calls and recording telephone messages A204 Participate in informal presentations and discussions. A205 Demonstrate proficiency in speaking standard English.
Sample Activities	Describe a complex geometric figure in enough detail so that a classmate can correctly reproduce the figure without looking at it. Train your teacher on your job duties during a coordination visit to your workplace. Locate any policies at your workplace regarding telephone etiquette/procedure and handling telephone messages. Compare these policies with those located by classmates. Practice handling difficult customers via telephone simulation exercises. Prepare and deliver a five-minute oral description of a career of your choice. Submit your outline to your teacher before presenting to the class.

Academic Foundations for Careers – AFC B1

Topic	Occupational Mathematical Computations
Performance Indicator	B. Understand the importance of effective mathematical computation skills in the workplace.
Standard	Perform appropriate mathematical calculations in work- related situations.
SCANS	Resources 2; Basic Skills 3, 4; Thinking Skills 12
Show-Me Standards	1.10; 3.8; MA1, 3, 6
Objectives	 B101 Compute addition, subtraction, multiplication, and division problems as related to the workplace B102 Compute addition, subtraction, multiplication, and division of decimal number problems as related to the workplace B103 Interpret quantitative information from tables, charts, and graphs as related to the workplace B104 Compute ratios and percentages as related to the workplace B105 Calculate distance, weight, area, volume, and/or time problems as related to the workplace B106 Determine costs, time, and/or resources needed to complete a task within the workplace.
Sample Activities	Identify examples where basic arithmetic is used at your place of employment. Ask your manager or supervisor for an example of quantitative information presented in graphic form. Share with the class the interpretation of that information, how it is accumulated, and how the information is used in the business. Prepare a series of math problems related to your place of employment which include ratios, percentages, cost estimation, and distance or time problems. Have the class solve the problems and check their answers for accuracy.

ACADEMIC FOUNDATIONS FOR CAREERS RESOURCES

21st Century Literacies (Reading, see Sensemaking)
http://www.kn.sbc.com/wired/21stcent/sitemap.html#sensemaking

Above links from "Virginia's Workplace Readiness Skills" Idea Book: Integrating Work Skills and Basic Skills http://cls.coe.utk.edu/pdf/Idea_Book_2000.pdf

Academic Standards Resources – Indiana Department of Education. <a href="http://www.indianastandardsresources.org/completeResource.asp?Subject=eng&Grade=12&Standard="http://www.indianastandardsresources.org/completeResource.asp?Subject=eng&Grade=12&Standard="http://www.indianastandardsresources.org/completeResource.asp?Subject=eng&Grade=12&Standard=12&

A Collection of Authentic Workplace Materials (Canadian resource for samples of workplace reading and writing, accessible by occupation or by type of material) http://www15.hrdc-drhc.gc.ca/awm/default.asp

A Collection of Authentic Workplace Materials (Canadian resource for samples of workplace reading and writing, accessible by occupation or by type of material) http://www15.hrdc-drhc.gc.ca/awm/default.asp

A Definition of Purpose

http://www.mines.edu/Academic/lais/wc/tutorials/anatext/writtext/wcontext/pop1b.htm

Audience, Purpose and Language Use in Electronic Messages (Lesson Plan) http://www.readwritethink.org/lessons/lesson_view.asp?id=159

Bang for Your Buck: Examining the Hidden Costs Behind Bargains and Quality Products http://www.nytimes.com/learning/teachers/lessons/20031106thursday.html

Basic Algebra and Computer: Spreadsheets, Charts, and Simple Line Graphs (Lesson Plan)

http://www.powertolearn.com/teachers/lesson_activities/math/CBV.72.S.M.R7.F.pdf

Basic Math Calculator

http://www.convertit.com/Go/ConvertIt/Calculators/Math/Basic Math Calc.ASP

Business Letter Writing: Putting Your Reader First

http://www.business-letter-writing.com/writing-a-business-letter-examples/putting-your-reader-first.html

Business Writing (Assessment items with scenarios) http://www.act.org/workkeys/assess/bus_writ/index.html

Conversion Diversion

http://faculty.cmsu.edu/iwe/Lesson_Plans/IET/ie0002.html

Carrying Out Math Calculations with Accuracy (rubric) http://www.tensigma.org/pdf/l n e/lne 4 bak/2007 rubric.pdf

Effective Email (Writing)

http://www.mindtools.com/CommSkII/EmailCommunication.htm

Effective Writing for the Workplace

http://www.writerswrite.com/journal/cew1.htm

Email Etiquette Workshop (PowerPoint)

http://owl.english.purdue.edu/workshops/pp/emailett.ppt

English and Your Career

http://www.bls.gov/opub/oog/1999/summer/art03.pdf

Engineers Edge: Formulas used in design, engineering, and manufacturing (see bottom half of page)

http://www.engineersedge.com/

Evaluating Web Information

http://www.lib.vt.edu/help/instruct/evaluate/

Exactly How Is Math Used in Technology?

http://www.math.bcit.ca/examples/index.shtml

Examining How Mathematics Is Used in the Workplace (Automobile Production, Nursing, Banking, Biology, Science

http://www.maa.org/t and l/sampler/rs 6.html

Farese, L.S., Kimbrell, G., & Woloszyk, C.A. (2002). *Marketing essentials* (3rd ed.) Woodland Hills, CA: Glencoe/McGraw-Hill.

Field Research: Conducting an Interview (PowerPoint)

http://owl.english.purdue.edu/workshops/pp/interviewing.ppt

Finding Your Focus: The Writing Process (PowerPoint) http://owl.english.purdue.edu/workshops/pp/writproc.PPT

Formulas for Consumers and Statistics

http://www.brookdalecc.edu/fac/tlt/math/136/formulas.php

Getting the Right Tone to Your Business Letter

http://www.business-letter-writing.com/writing-a-business-letter-examples/getting-the-right-tone-to-your-business-letter.html

Grammar, Punctuation, and Spelling (Instructional handouts)

http://owl.english.purdue.edu/handouts/grammar/index.html

High School Operations Research: Mathematics for Decision Making in Industry and Government

http://www.hsor.org/case_studies.cfm (Case Studies)

http://www.hsor.org/modules.cfm (Modules)

How Much Roofing Do I Need?

http://www.fieldshomeimprovement.com/ht_shingles.html

How to Write a Company Handbook http://www.profitquide.com/howto/article.jsp?content=843

How to Write and Revise a Rough Draft http://www.utexas.edu/student/utlc/handouts/1234.html

Improve Your Communication Skills (Writing) http://www.mindtools.com/CommSkII/WritingSkills.htm

Information Skills (Emphasis on Reading) http://www.mindtools.com/pages/main/newMN_ISS.htm

Internet Research

http://www.library.vcu.edu/help/internet.html

Interest Calculation and Spreadsheets (Lesson Plan) http://www.powertolearn.com/teachers/lesson_activities/math/CBV.79.E.M.R6.D1.pdf

Interpreting Workplace Memos and Notices (Lesson Plan) http://slincs.coe.utk.edu/gtelab/learning_activities/11broc.html

Introduction: Audience

http://writing.colostate.edu/references/processes/audmod/

Introduction: Development

http://writing.colostate.edu/references/processes/develop/

Introduction: Focus

http://writing.colostate.edu/references/processes/focus/

Introduction: Organization

http://writing.colostate.edu/references/processes/organize/

Introduction: Purpose

http://writing.colostate.edu/references/processes/purpose/index.cfm

Math and Your Career

http://www.bls.gov/opub/oog/1999/summer/art03.pdf

Math To Build On (Mathematics for the Construction Industry)

http://mathforum.org/%7esarah/hamilton/index.html

Math, Timelines, and Data Management Case Studies http://www.apl.com/boomerangbox/casearch.htm#math

Memo Writing

http://owl.english.purdue.edu/handouts/print/pw/p_memo.html

Online Plagiarism Tutorial

http://www.lib.usm.edu/research/plag/plagiarismtutorial.php

Online Technical Writing: Examples, Cases, & Models http://www.io.com/~hcexres/tcm1603/acchtml/models.html

Online Technical Writing: Instructions

http://www.io.com/~hcexres/tcm1603/acchtml/instrux.html

Online Technical Writing: Proposals

http://www.io.com/%7ehcexres/tcm1603/acchtml/props.html

Outline

http://owl.english.purdue.edu/workshops/hypertext/ResearchW/outline.html

Planning a Class Field Trip (Mathematics/Computers/Internet Lesson Plan) http://www.lessonplanspage.com/SSMathCIPlanningClassFieldTrip312.htm

Powerful & Practical: Writing the Impact Report (PowerPoint) http://owl.english.purdue.edu/workshops/pp/ImpactReport.ppt

Practice Exercises Index (Grammar, punctuation, spelling quizzes) http://owl.english.purdue.edu/handouts/interact/index.html

Press Release Writing Tips

http://www.press-release-writing.com/ (Use left-hand menu to access topics)

Pricing

http://ohioline.osu.edu/cd-fact/1326.html

Progress Report Memo: Analytical Report (Assignment instructions) http://www.enl.umassd.edu/InteractiveCourse/assistant/AssignArch_BusCommTechWrite. http://www.enl.umassd.edu/InteractiveCourse/assistant/AssignArch_BusCommTechWrite. http://www.enl.umassd.edu/InteractiveCourse/assistant/AssignArch_BusCommTechWrite. http://www.enl.umassd.edu/InteractiveCourse/assistant/AssignArch_BusCommTechWrite. http://www.enl.umassd.edu/InteractiveCourse/assistant/AssignArch_BusCommTechWrite. http://www.enl.umassd.edu/InteractiveCourse/assistant/AssignArch_BusCommTechWrite.

Proofread the Final Draft

http://www.factmonster.com/homework/t9xfinal.html

Proofreading

http://owl.english.purdue.edu/workshops/hypertext/ResearchW/proofread.html

Proofreading for Common Surface Errors: Spelling, Punctuation, and Grammar http://www.indiana.edu/~wts/pamphlets/proofing_grammar.shtml

Purposes in Writing

http://web.umr.edu/~gdoty/classes/concepts-practices/purposes.html

RAFT Organizer for Writing a Letter

http://its.guilford.k12.nc.us/act/grade6/gr6_files/Europe_DTP/Raft_Letter.doc

Reading and Interpreting Production Graphs

http://slincs.coe.utk.edu/gtelab/learning activities/10broc.html

Reading for Information (Assessment items with scenarios) http://www.act.org/workkeys/assess/reading/

Revise the First Draft

http://www.factmonster.com/homework/t9revise.html

Revision

http://owl.english.purdue.edu/workshops/hypertext/ResearchW/revise.html

Seven Steps to Library Research

http://www.lib.vt.edu/help/instruct/seven/library research.html

Spell Check: Appraising the Value of Good Spelling

http://www.nytimes.com/learning/teachers/lessons/20040129thursday.html

Statistics: Determining Mean, Range, Median, Mode, and Probability (Lesson Plan)

http://slincs.coe.utk.edu/gtelab/learning activities/09broc.html

Stock Charting: Percentages and Profits (Lesson Plan)

http://www.powertolearn.com/teachers/lesson_activities/math/CBV.73.S.M.R7.D1.pdf

Strategies for Developing Your Ideas

http://writing.colostate.edu/references/processes/develop/list5.cfm

Survey of Favorites (Lesson Plan)

http://www.powertolearn.com/teachers/lesson_activities/math/CBV.75.E.M.R1.F.pdf

Technical Reports

http://www.io.com/~hcexres/tcm1603/acchtml/techreps.html

Technical Writing: Model Documents

http://longman.awl.com/englishpages/tech_model.htm

Tech Train: Excel Formulas and Functions

http://www.techtrainteam.com/services/olt/office2000/xls-a3.html

Tools for Reading the World

http://www.noodletools.com/debbie/literacies/21c.html

The Basic Business Letter: Parts of the Business Letter

http://owl.english.purdue.edu/handouts/print/pw/p_basicbusletter.html

Traveling in Time Zones (Lesson Plan)

http://www.lessonplanspage.com/MathTravelingInTimeZonesIdea910.htm

The Seven Cs of Business Letter Writing

http://www.business-letter-writing.com/writing-a-business-letter-examples/7Cs-of-business-letter-writing.html

Understanding Language Registers as a Means to More Effective Communication (Lesson Plan)

http://slincs.coe.utk.edu/gtelab/learning_activities/30carc.html

Using Math to Solve Problems & Communicate http://slincs.coe.utk.edu/gtelab/find.html#usemath

Using Math to Solve Problems and Communicate (Lesson Plans) http://slincs.coe.utk.edu/gtelab/find.html#usemath

Where Do I Begin? http://info-skills.lib.vt.edu/

Wisconsin Academic Standards Resources - IDEA - http://www.ideas.wisconsin.edu/

Workforce Readiness Credential Library
Center for Literacy Studies, University of Tennessee/Knoxville, ©2000
http://eff.cls.utk.edu/work_readiness/eff_work_library_info.htm

Write a First Draft

http://www.factmonster.com/homework/t6roughdraft.html

Writing a Job Pamphlet

http://slincs.coe.utk.edu/gtelab/learning activities/07alll.html

Writing an Introduction

http://owl.english.purdue.edu/workshops/hypertext/ResearchW/writeintro.html

Writing Business Messages (PowerPoint)

http://owl.english.purdue.edu/workshops/pp/audorg.ppt

Writing for an Audience

http://home.cogeco.ca/~rayser3/letter.txt

Writing Guides for Different Types of Documents

http://writing.colostate.edu/references/index.cfm?guides active=documents

Writing the Fire Investigation Report

http://www.interfire.com/res file/reports.asp

MarkEd/Career Paths Resource Center

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Fax: 614-486-1819

Email: service@mark-ed.com
Web site: www.mark-ed.com