





DIN 33430

DIN 33430. Requirements for proficiency assessment procedures and their implementation. German Standard published in June 2002

This norm serves:

- Service organizations (internal and external contractors within an organization according to this norm) as a guide for the planning and implementation of proficiency assessments;
 Clients within organizations as a standard for the evaluation of external proficiency assessment offers;
- Individuals responsible for personnel who ensure the quality and optimization of personnel decisions and;
- To protect candidates from improper use or abuse of proficiency assessment procedures.





Norm contributes:

- To the wide-spread implementation of scientifically and professionally sound proficiency assessment procedures.
- To the correct development and implementation of proficiency assessment procedures;
- To the continual improvement of proficiency assessment
- Decision-making errors, as well as the resulting negative economic, social and individual effects that often accompany the use of low quality proficiency assessment procedures, can be avoided by using this norm.





Skill

- Skill [uncountable] the ability to do something well, usually as a result of experience and training
 I admired the skill and dedication of the nursing staff.
 The committee needs someone who has some skill in financial planning.
- Skill [countable] a particular ability that involves special training and experience
 - The course helps people gain the skills they need to run a successful business.
- · American English synonyms or related words for this sense of skill:

 - merican English synonyms or related words for this sense of skill:

 Talent a natural ability for being good at a particular activity.

 Ability the fact of being able to do something

 Experience knowledge and skill that is gained through time spent doing a job or activity

 Competence the ability to do something in a satisfactory or effective way

 Mastery great knowledge or skill

 Prowess great skill or ability

 Aptitude natural ability that makes it easy for you to do something well

 Proficiency a high degree of ability or skill in something

 Gift a natural ability to do something well

 Reference a natural ability to do something well





Competence

Competence - the ability to do something in a satisfactory or effective

- a. [formal] a person's range of skills or knowledge
- b. a skill needed for doing a particular job or carrying out a particular task

Core competence - a skill or type of knowledge that makes an organization especially good at doing some things and gives it an advantage over other organizations





Competency

A competency is more than just knowledge and skills. It involves the ability to meet complex demands, by drawing on and mobilising psychosocial resources (including skills and attitudes) in a particular context

For example, the ability to communicate effectively is a competency that may draw on an individual's knowledge of language, practical IT skills and attitudes towards those with whom he or she is communicating.

Key competency must:

- •Contribute to valued outcomes for societies and individuals;
- •Help individuals meet important demands in a wide variety of contexts; and
- •Be important not just for specialists but for all individuals.

Organization for Economic Cooperation and Development (2005). Definition and selection of key competencies: Executive summary. http://www.oecd.org/dataoecd/47/61/35070367.pdf





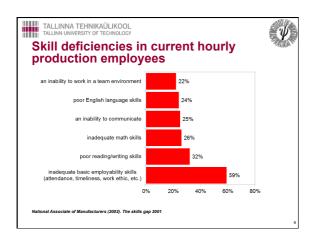
Employer's challenges

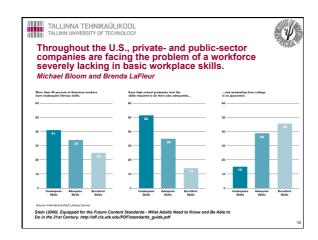


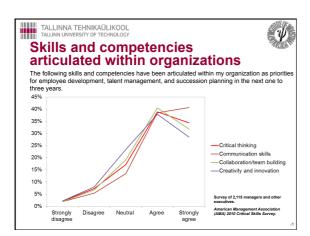
- · Language challenge
 - immigrants with limited (English) language skills
- Education credential challenge
 adults who lack a high school diploma
- · New literacy challenge

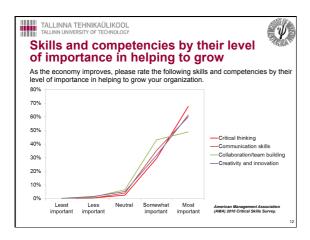
low-skilled workers who posess high school credentials and are not illiterate in the traditional sense but have limited reading, math and analytical skills

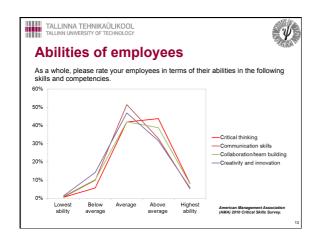
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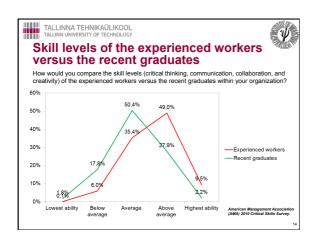


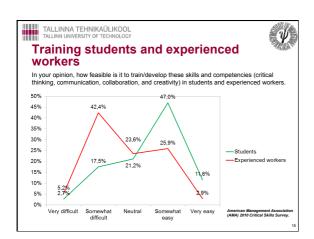


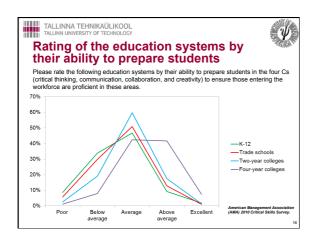


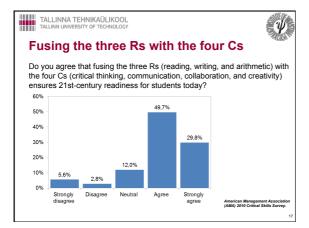


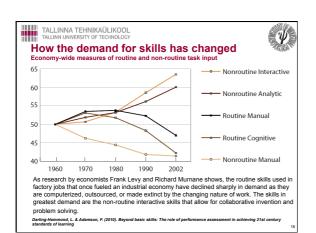


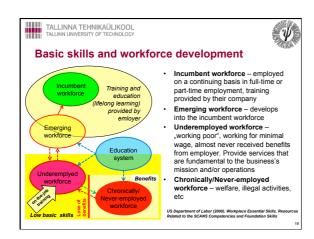


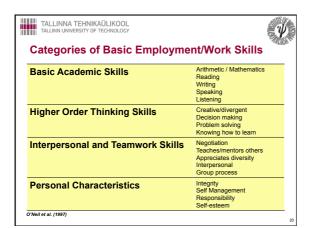


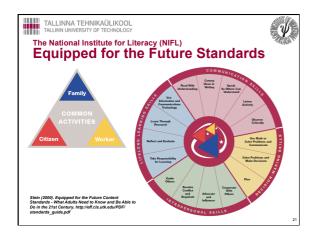




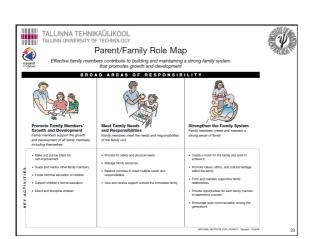


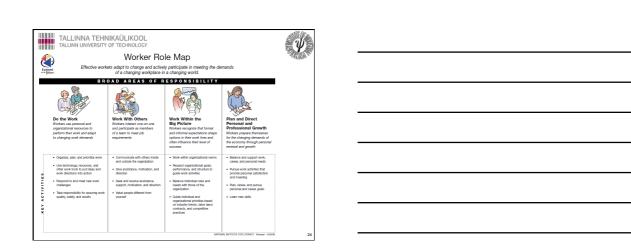


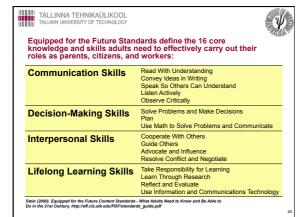
















EFF performance asessment:

- Read with Understanding
- Convey Ideas in Writing
- Listen Actively
- Speak So Others Can Understand
- Use Math to Solve Problems and Communicate
- <u>Use Information and Communications Technology</u>
- Cooperate with Others
- Resolve Conflict and Negotiate
- Solve Problems and Make Decisions
- Learn Through Research
- <u>Take Responsibility for Learning</u>

http://eff.cls.utk.edu/assessment/arc_library.htm







Secretary's Commission on Achieving Necessary Skills (SCANS)

The Secretary's (Secretary of Labor) Commission on Achieving Necessary Skills (SCANS) was established in February 1990 to examine the demands of the work place and to determine whether the current and future workforce is capable of meeting those demands. Commission members included 31 representatives from the nation's schools, businesses, unions and government.

Commission was asked to:

- 1.Define the skills needed for employment;
- 2. Propose acceptable levels in those skills;
- 3. Suggest effective ways to assess proficiency; and
- A.Develop a strategy to disseminate the findings to the nation's schools, businesses and homes.





WORKPLACE KNOW-HOW

The know-how identified by SCANS is made up of five competencies and a three-part foundation of skills and personal qualities needed for solid job performance. These include: COMPETENCIES Effective workers can productively use:

•Resources: allocating time, money, materials, space, staff

•Interpersonal Skills: working on learns, teaching others, serving customers, leading, negotiating, and working well with people from culturally diverse backgrounds; •Information: acquiring and evaluating data, organizing and maintaining files, interpreting and communication and using computers to process-information;

Systems: understanding social, organizational, and technological systems, monitoring and correcting performance, and designing or improving systems;

Technology: selecting equipment and tools, applying technology to specific tasks, and maintaining and troubleshooting technologies.

THE FOUNDATION. Competence requires:

*Basic Skills: reading, writing, arithmetic and mathematics, speaking and listening;
 *Thinking Skills: thinking creatively, making decisions, solving problems, seeing things in the mind's eye, knowing: how to learn, and reasoning;

Personal Qualities: individual responsibility, self-esteem, sociability, self-management and integrity.

US Department of Labor (1993) Teaching the SCANS Competencies





Basic Skills

Reading

- · locates, understands, and interprets written information in prose and documents, including manuals, graphs, and
- · learns from text by determining the main idea or essential message;
- · identifies relevant details, facts, and specifications;
- · infers or locates the meaning of unknown or technical vocabulary;
- · judges the accuracy, appropriateness, style, and plausibility of reports, proposals, and theories of other writers.

US Department of Labor (2000). Workplace Essential Skills. Resources Related to the SCANS Competencies and Foundation Skills



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Writing

- · communicates thoughts, ideas, information, and messages in writing;
- records information completely and accurately, composes and creates documents such as letters, directions, manuals, reports, proposals, graphs, and flowcharts;
- · uses language, style, organization, and format appropriate to the subject matter, purpose, and audience;
- · includes supporting documentation, and attends to level of emphasis, form, grammar, spelling, and punctuation

US Department of Labor (2000). Workplace Essential Skills. Re Related to the SCANS Competencies and Foundation Skills





Arithmetic

- · performs basic computations,
- uses basic numerical concepts such as whole numbers and percentages in practical situations,
- makes reasonable estimates of arithmetic results without a calculator, and
- uses tables, graphs, diagrams, and charts to obtain or convey quantitative information.

US Department of Labor (2000). Workplace Essential Skills. Resource: Related to the SCANS Competencies and Foundation Skills





Basic Skills

Mathematics

- approaches practical problems by choosing appropriately from a variety of mathematical techniques,
- uses quantitative data to construct logical explanations for real-world situations,
- expresses mathematical ideas and concepts orally and in writing, and
- understands the role of chance in the occurrence and prediction of events.

US Department of Labor (2000). Workplace Essential Skills. Resources Related to the SCANS Competencies and Foundation Skills



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Basic Skills Listening

Receives, attends to, interprets, and responds to verbal messages and other cues such as body language in ways that are appropriate to the purpose (e.g., comprehend, learn, critically evaluate, appreciate, or support a speaker).

US Department of Labor (2000). Workplace Essential Skills. Resources Related to the SCANS Competencies and Foundation Skills





Speaking

Organizes ideas and communicates oral messages appropriate to

- Organizes ideas and communicates oral messages appropriate to listeners and situations;
- · participates in conversation, discussion, and group presentations;
- selects an appropriate medium for conveying a message;
- uses verbal language and other cues such as body language appropriate in style, tone, and level of complexity to the audience and occasion;
- speaks clearly and communicates a message;
- · understands and responds to listener feedback:
- and asks questions as necessary.

US Department of Labor (2000). Workplace Essential Skills. Resource Related to the SCANS Competencies and Foundation Skills





Karen M. Maduschke and Phyllis T.H Grummon (1996) **WORKING**

Working is a self-assessment of workplace skills. The assessment is designed to offer students insights into the skills employers require. The types of skills that workplaces want go beyond academic competencies and technical know-how. Working is diagnostic and prescriptive. The results can be used by teachers to design instruction and by students to develop their own strategies to enhance their workplace success.

Working is meant to be used as:

- 1.a diagnostic measure to identify areas in which students could benefit most from educational interventions;
- $2.\mbox{a}$ basis for creating individual plans for bolstering weaknesses and building on strengths;
- $3.\mbox{a}$ counseling tool for those involved in helping students be successful in the workplace.

Karen M. Maduschke and Phyllis T.H Grummon (1996) Technical Documentation to Working. Public Policy Associates. http://www.hhoublishing.com/ assessments/WORKING/WORKINGTechMan.odf

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Scales of WORKING

- Assessing Skills Habits and Style
- Taking ResponsibilityWorking in Teams
- Persisting
- · Having a Sense of Quality
- Interest in Life-Long Learning
- Adapting to Change
- Permanent Problem Solving
- · Information Processing
- · Thinking in Terms of Systems





WORKING Scoring

- 1 = almost never like me
- 2 = occasionally like me
- 3 = moderately like me
- 4 = quite a bit like me
- 5 = almost always like me

Working yields nine individual scale scores, one for each of the nine scales.
The scale score is equal to the total number of "points" achieved on the items in a scale.

Scores for the 16 reverse-coded (R) items are inverted on the student score sheet so that more positive responses always equal more points and more negative responses always equal fewer

The range of total points possible for each of the six-item scales is 6 to 30 and for each of the four-item scales the range is 4 to 20.





WORKING Taking Responsibility

In order to be successful at school and work, students must be willing to take personal responsibility for their assigned tasks. Students also need to be able to identify the range of actions that will lead to success and to make sure that they are done satisfactorily. If students do not take personal responsibility for task completion, they are unlikely to be successful in life, regardless of their natural abilities or talents.



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WORKING

Taking Responsibility. Items

- I keep and use a list of things I've got to do.
- · It really bugs me to see a problem that no one is trying to
- · I check up to make sure that others have done what they said they would do.
- · I don't usually think about what I need to do until it's almost time to do it. (R)
- As soon as I finish one task, I look for another one to do.
- I prefer to let others take the lead in getting something done. (R)





WORKING Working in Teams

One of the skills that employers consistently rank as most important to success in a career is the ability to work in teams. Teams are used to make products or deliver services, to solve problems, and to manage the work environment. Employees at all levels of an organization must be able to work with others to accomplish tasks and solve problems. Teamwork involves attention to both the goals of the group and to the social processes used to accomplish those goals. Students need to be skilled in both the task and the process of teamwork.

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WORKING Working in Teams. Items

- I don't usually like others giving me suggestions on how I should do something. (R)
- I like working in teams, I have found that group decisions are often better than individual decisions.
- I prefer to learn with other people.
- · I explain to others why we need to work together.
- I'll frequently hold on to my opinion rather than compromise with the group. (R)





WORKING Persisting

The <u>desire to stay with a task until it is completed satisfactorily</u> is an essential quality for success in school, work, and life. Persisting involves the <u>expenditure of time and effort to ensure that what is started is finished</u>. Students who are able to persist until they master information or skills are at a definite advantage in school and work. Students must also be able to recognize when enough has been done and to not spend more time than is necessary on a task.





WORKING Persisting. Items

- I won't let go of a problem until I've got it licked.
- · I follow through on things no matter what it takes.
- I set definite goals, then keep working on them until I've achieved them.
- If I can't catch onto something quickly, I sometimes just drop it. (R)
- I get a job done even when it's much harder than I first thought.
- I don't let go of something until I understand it.

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WORKING A Sense of Quality

A <u>focus on the quality of one's work</u> is essential for successful performance at school and work. Students need to <u>take pride in their work</u> and <u>to invest the energy and time needed</u> to produce quality work. Appropriate attention to details is a key aspect of a student's <u>orientation to quality</u>, as is the desire to go beyond stated requirements to enhance a product. Without a desire to produce quality work, the completion of tasks is less meaningful.





WORKING

A Sense of Quality. Items

- I do extra work to make sure things are done just right.
 I won't settle for doing the minimum on anything, no matter
- I can't quit thinking about something until I'm sure I've done it very well.
- I don't worry about the little details as long as I've done the main things okay. (R)
- I seek out new activities and responsibilities.
- I usually do my work with great care only if someone will be checking up on me. (R)





WORKING Life-Long Learning

The pace of change in information and skills dictates that everyone be willing and able to learn throughout their lifetime. Some studies predict that people will change careers up to five times during their working lives. Even those who stay in an occupational area will be confronted with rapidly changing knowledge and skill demands. In order to be successful, students must have the desire and the ability to continue to learn, whether from formal schooling or on their own.

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WORKING

Life-Long Learning. Items

- I don't usually ask questions that go much beyond the immediate task at hand. (R)
- I like to experiment with ideas and possibilities in my head.
- I prefer to know what's in it for me before I spend a lot of effort learning something. (R)
- I usually don't make a special effort to learn new things. (R)
- I'm one of the first to volunteer to learn a new procedure or method.
- When I have to wait, I will read anything I find lying around.





WORKING Adapting to Change

Organizations are experiencing change at a rapid rate. Employees who can <u>be flexible and adapt to change</u> are more likely to be retained by an organization and to be successful in it. When people and organizations undergo frequent changes, the ability to thrive in ambiguous environments can help an employee to feel less stress. A student's <u>sense that change is not threatening and that it can be managed</u> for positive outcomes is an important component of success in the workplace.





WORKING

Adapting to Change. Items

- I adapt quickly to new situations.
- I usually do something I've enjoyed rather than try something different. (R)
- I am uncomfortable when I have to handle several things at once
- I worry a lot about what could happen when things are changing. (R)
- I am usually most comfortable when things are predictable.
- It can take me a long time to get used to a major change in my life. (R)

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WORKING

Permanent Problem Solving

Organizations must be concerned with the ability of employees to actively participate in solving its problems. Employees need to be able to recognize problems and to use systematic methods for identifying the components of a problem and developing solutions to it. Whether working alone or with others, organizations rely on employees to help them improve by permanently solving a range of problems.

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WORKING

Permanent Problem Solving. Items

- When solving a problem, I keep doublechecking to be sure I'm on the right track.
- I make a detailed plan before I tackle a complex problem.
- I consciously consider several different approaches before tackling a problem.
- I will offer a suggested solution whenever I bring up a problem to someone.





WORKING Information Processing

The ability to organize information so that it is connected to past experiences and to other knowledge enhances its usefulness. When learning a new skill or subject, students who can use a variety of strategies to build bridges to what they already know will have a distinct advantage. Students who understand their own learning process can use that understanding to learn material more rapidly and more completely. Since the ability to learn is valued highly by organizations, effective information processing plays a role in employees' workplace success.

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WORKING Information Processing. Items

- I learn by figuring out how I can apply the things I'm learning to my life
- When trying to understand something complicated, I carefully break it into parts.
- When learning something, I first think carefully about the very best way to tackle it.
- I understand new things by seeing how they fit with what I already know.
- I consciously ask myself questions to see how well I understand something.
- I make a mental picture of what I am trying to learn or solve.

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WORKING Systems Thinking

As organizations assign responsibility for production and problem solving to all levels, it becomes essential that all employees understand how their work fits into the overall goals of the organization. Employees who use systems thinking can see the interrelationships of the parts of the organization and understand how actions in one part affect other parts. Systems thinking enhances the ability of employees to find permanent solutions to problems.





WORKING

Systems Thinking. Items

- · I want to see how one task is related to other tasks.
- · I tackle a problem by first trying to see how it affects
- I frequently come up with new ideas for how to do things better.
- I know how to get things done in a system or an organization.

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Scale Summary Statistics

Scale	Mean Score	N	Standardized Alpha
Taking Responsibility	20.85	640	.55
Working in Teams	20.09	638	.59
Persisting	22.19	639	(.75)
A Sense of Quality	21.16	639	.64
Life-Long Learning	20.88	635	.55
Adapting to Change	18.23	640	.61
Permanent Problem Solving	g 13.38	638	.57
Information Processing	20.54	640	(.72)
Systems Thinking	13.12	632	.52





WORKING - for the Workplace use

- In-plant readiness/improvement programs intensive but usually short-term in-plant training programs to hone the preparatory skills of new employees or improve/broaden the skills of existing employees
- sails of existing employees

 Apprenticeships extended assignments of students to perform regular duties on a daily or weekly basis in a particular job, mainly as part of their program of education

 Orientations short, but often intensive, employer-led introductions of new employees to the processes, culture, regulations, organization, and expectations of a particular company
- Employability skills development programs—intensive training programs which provide those without significant prior work experience with the basic skills, the habits and attitudes, and the general technical skills needed to prepare for productive employment in entry-level
- Pre-employment training programs programs which provide those with significant prior work experience or relevant education with 'brush-up' workplace skills in areas ranging from technical math and reading through safety, SPC, business economics, and the like.

the like.

Working is designed to be useful in all of these settings, and others relating to developing proficient employees. Please note that as with any self-assessment instrument Working is not designed for direct use in employee promotion and/or selection. I designed to provide information about the employee (to the employee, trainers, and employers) which can be used in many ways to better-prepare that employee for worksuccessful performance. On the job production of the provided in the profit of the provided in the profit of the profit





Essential Skills Resources and Skills Development Canada



"Through extensive research, the Government of Canada and other national and international agencies have identified and validated these key Essential Skills for the workplace. These skills are used in nearly every job and at different levels of complexity. They provide the foundation for learning all other skills and enable people to evolve with their jobs and adapt to workplace change."

- 1.Reading
- 2.Document Use
- 3.Numeracy
- 4.Writing
- 5.Oral Communication
- 6.Working with Others 7.Thinking
- 8.Digital Technology
- 9.Continuous Learning





Essential Skills

Human Resources and Skills Development Canada

- 1. Reading is understanding information in the form of sentences or paragraphs. Workplace examples: reading instructions from an equipment manual, reading flight information on a computer screen.
- 2. Document Use is reading signs, labels, lists, or drawings; interpreting information on graphs; and entering information on forms. Workplace examples: interpreting building height information from a blueprint, getting price information from a product catalogue.
- 3. Numeracy is using numbers and thinking in quantitative terms to complete tasks, such as estimating amounts, scheduling, or analyzing data. Workplace examples: calculating the amount of change to give to a customer, preparing budgets for the company.
- Writing is conveying ideas by writing text and writing in documents, such as filling in forms or typing on a computer. Workplace examples: filling out a form to request equipment repairs, writing an annual report about the company's activities for the previous year.





Essential Skills

Human Resources and Skills Development Canada

- Oral Communication is using speech to give and exchange thoughts and information. Workplace examples: informing a customer about a company's services making a presentation at an office meeting.
- Working with Others is working with co-workers, as a member of a team, or in a supervisory position. Workplace examples: coordinating tasks with co-workers to cater a banquet, working as an assistant to help a supervisor complete a task.
- cater a barquet, working as an assistant to near a supervisor complete a task.

 7. Thinking is evaluating ideas or information to reach a rational decision. Workplace examples: making a diagnosis about a patient's condition based on observations and the patient's medical reports, resolving a customer complaint.

 8. Digital Technology is using computer applications or technical tools such as word processing, e-mails, or spreadsheets. Workplace examples: using a spreadsheet to make budget calculations for a project, completing financial transactions using electronic cash registers.

 9. Continuous Learning is propried learning as part of work through no confisite.
- Continuous Learning is ongoing learning as part of work, through on or off site training, or from co-workers. Workplace examples: receiving on-the-job mentoring about a new company procedure, attending a convention to learn about new

Forms			ts of Ba L Overv		lls (CTBS)	on
		MARY BM K	ELEMENTARY FORM K	ELEMENTARY FORM L (SURVEY)	HIGH SCHOOL FORM K	
CURRICULUM Grade		1.7- 2.5- 2.6 3.5	3 4 5 6 7 8	3 4 5 6 7 8	9 10 11-12	
Level	5 6	7 8	9 10 11 12 13 14	9 10 11 12 13 14	15 16 17/18	
VOCABULARY	************	abulary Analysis	Vocabulary (15)	Vocabulary (7)	Vocabulary (15)	
READING	word	Reading	Reading Comprehension (46)	Comprehension (23)	Raading Comprehension (40)	
	List	tening				
LANGUAGE	Lan	guge	Spelling (12) Capitalization (12) Punctuation (12) Usage and Expression (24)	Integrated Language (40)	Correctness and Appropriateness of Expression (40)	
SOURCES OF INFORMATION		Sources of Information	Reference Materials (25)		Use of Sources of Information (20)	
		Math Concepts	Math Concepts and Estimation (30)	Concepts (10)		
MATHEMATICS	Mathematics	Math	Math Problem Solving	Estimation (5)	Ability to Do Quantitative	
MAINEMAIICS	marrienancs	Problems	and Data Interpretation (30)	Problem Solving (5)	Quantitative Thinking (40)	
		Math Computation	Math Computation (20)	Data Interpretation (6)		
SCIENCE		Science	Science (30)		Analysis of Science Materials (40)	
	+		Mags and Diagrams (30)	 	¢	

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BASIC COMPUTER SKILLS TEST (BCST)

The BCST is an assessment of knowledge and skills relating to basic computer and Internet usage. The test contains 15 multiple choice questions designed to assess specific job-related knowledge and skills in two areas. Basic Computer/Windows and Intranet/Internet/Enower/ Email. The purpose of these questions is to evaluate your readiness to perform a job that requires use of a computer. During the test you will be asked questions about a variety of basic computer and internet skills, including:

- Basic parts of a computer, use of Windows software, basic computer functions (using a

- Skills, including:

 Basic parts of a computer, use of Windows software, basic computer functions (using a mouse, working in multiple Windows, etc.) and basic software functions (saving a file, copying text, etc.)

 Basic Internet, browser and email functions (finding websites, searching for information and sending email, etc.)

 The BCST process takes approximately 15 minutes. The test contains questions like the following:

- 1. In order to search for information on the Internet, you would open the following program:
 a. Email
 Browser
- d. Spreadsheet

 http://att.jobs/docs/lest-guides/basic-computer-skills-test-%28BCST%29.pdf

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Question Excerpt From Basic Computer Skills Assessment

How do you open a program such as a Microsoft Word when there are no icons on the desktop?

- Right click to reveal all icons.
- В. Restart the computer.
- C. It is not possible to open program if no icons are on the desktop.
- D. Cick the start button and select program from the menu.

Q.2) How do you minimize or maximize a program in Windows?

- Right click on the mouse.
- В. Go to "File" and select minimize or maximize.
- C. Top right corner, dash or square.
- D. This function can not be done.

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Question Excerpt From Basic Computer Skills Assessment

Q.3) How do you close a window on your desktop?

- Go to "File" and select "Close".
- B. Press the "Ctrl" key on the keyboard.
- Use the mouse to press the button with the "X" in it at the top right corner of the screen.
- Use the mouse to press the button with the _ in it at the top right corner of the screen.

Q.4) A word processing file can be attached to an e-mail message?

- A. Yes
- В.
- C. Depends on what type of file.
- D. Only to select email addresses.

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Question Excerpt From Basic Computer Skills Assessment

Q.5) What does the "Reply to All" e-mail function do?

- It will generate a reply message to all of the recipients of the message.
- B. It will send a reply message to every entry in your address book.
- C. It will generate a reply message only to the sender of the message.
- D. This function is not possible.

Which of the following is an example of an e-mail address? Q.6)

- www.google.com
- В jeandoe.gmail.com
- C. Bob Smith@yahoo.com
- D. johndoe@cincinnatilibrary.org





Question Excerpt From Basic Computer Skills Assessment

Which two websites offer free email service? Q.7)

- Yahoo and Amazon A.
- В. Yahoo and Google
- I-Tunes and Twitter C.
- Library website and Hotmail D.

"Desktop" is a computer term that refers to? Q.8)

- Something that is for the computer programmer only.
- В. The part of your work area where the computer monitor sits.
- C. The initial screen showing icons for folders, applications and files.
- The desk that your computer is stationed on. D.

http://www.proprofs.com/quiz-school/story.php?title=basic-computer-skills-assessment

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Euridice competences

Eight key competences have been defined at EU level, which represent a combination of knowledge, skills and attitudes that are considered necessary for personal fulfilment and development; active citizenship; social inclusion; and employment:

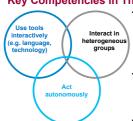
- communication in the mother tongue;
- · communication in foreign languages;
- · mathematical competence and basic competences in science and technology;
- digital competence
- · learning to learn;
- · social and civic competences:
- sense of initiative and entrepreneurship
- · cultural awareness and expression.

Further support needed for the development of transversal competences

Eurydice (2012) Developing Key Competences at School in Europe: Challenges and Opportunities for Policy. http://eacos.ec.europs.eu/education/eurydice/documents/thematic_reports/145EN.pdf



Organization for Economic Cooperation and Development Key Competencies in Three Broad Categories



- ree Broad Categories
 First, individuals need to be able to use a wide range of tools for interacting effectively with the environment: both physical ones such as information technology and socio-cultural ones such as the use of language. They need to understand such tools well enough to adapt them for their own purposes to use tools interactively.

 Second, in an increasingly interdependent world, individuals need to be able to engage with others, and since they will encounter people from a range of backgrounds, it is important that they are able to interact in heterogeneous groups.

 Third, individuals need to be able to take
- Third, individuals need to be able to take responsibility for managing their own lives, situate their lives in the broader social context and act autonomously.

Organization for Economic Cooperation and Development (2005). Definition and selection of key competencies: Executive summary. http://www.oecd.org/dataoecd/47/61/35070367.pdf





PISA Surveys

PISA tests 15-year-old students in reading, mathematics and science as well as measuring a wider range of factors including students' interest, attitudes and motivation. The assessment focuses on young people's ability to use their knowledge and skills to meet reallife challenges, rather than merely on the extent to which they have mastered a specific school curriculum. This approach is called 'literacy'.

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PISA literacy

- Reading literacy understanding, using and reflecting on written texts, in order to achieve one's goals, to develop one's knowledge and potential, and to participate in society.
- **Mathematics** is defined in relation to three dimensions: the content, the mathematical processes and the situations.
- Scientific literacy the capacity to use scientific knowledge, to identify questions and to draw evidence-based conclusions in order to understand and help make decisions about the natural world and the changes made to it through human activity.

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Relationship between items and students on a proficiency scale

PISA scale

PISA scale

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