
The SCANS Skills and Competencies Checklist: An Assessment Tool for Youth Work Readiness Programs

Lydia B. Blalock, Ph.D.

Rutgers Cooperative Research & Extension
Rutgers, the State University of New Jersey
New Brunswick, NJ
blalock@rcrc.rutgers.edu

Linda Strieter

Rutgers Cooperative Research & Extension
Rutgers, the State University of New Jersey

Luanne Hughes

Rutgers Cooperative Research & Extension
Rutgers, the State University of New Jersey



The SCANS Skills and Competencies Checklist: An Assessment Tool for Youth Work Readiness Programs

Lydia B. Blalock, Linda Strieter and Luanne Hughes
Rutgers, the State University of New Jersey

Abstract: The *SCANS Report for America, 2000* (1992) identified the skills youth need to compete in the workplace. The not-for-profit sector responded by implementing programs designed to give at-risk youth opportunities to learn the skills and competencies required to be work ready. Program evaluators, however, are challenged with the need to assess behavioral changes, which at best are difficult to document. In addition, at-risk youth often do not perform well with traditional paper and pencil assessments (for a variety of reasons). Improvements in SCANS attributes must be captured while the youth are engaged in learning and practicing the desired skills and behaviors. The *SCANS Skills & Competencies Checklist*, developed by evaluators of the RCRE Youth Farmstand Program, is a tool that can be customized easily for use with youth work readiness programs that include an experiential learning component.

Background: The SCANS Report

In 1990 the U.S. Secretary of Labor organized the Secretary's Commission on Achieving Necessary Skills (SCANS). The commission engaged in a thorough study to document and understand the attributes youth should acquire before they enter the work force, and published the findings as *Learning for Living: A Blueprint for High Performance* (U.S. Department of Labor, 1992).

The "SCANS Report" clearly identifies the skills, competencies and personal qualities youth need to compete successfully in the workplace (Table 1). The commission also charged the U.S. education system with the responsibility of integrating those skills into students' academic preparation.

Table 1
SCANS Report Competencies and Foundation Skills

<i>Competencies. Effective workers can productively use:</i>	
Resources	<ul style="list-style-type: none"> • Allocating time, money, materials, space, and staff
Interpersonal Skills	<ul style="list-style-type: none"> • Working on teams • Teaching others • Serving customers • Leading • Negotiating • Working well with people from culturally diverse backgrounds
Information	<ul style="list-style-type: none"> • Acquiring and evaluating data • Organizing and maintaining files • Interpreting and communicating • Using computers to process information
Systems	<ul style="list-style-type: none"> • Understanding social organizational, and technological systems • Monitoring and correcting performance • Designing or improving systems
Technology	<ul style="list-style-type: none"> • Selecting equipment and tools • Applying technology to specific tasks • Maintaining and troubleshooting technologies
<i>Foundation Skills. Competence requires:</i>	
Basic Skills	<ul style="list-style-type: none"> • Reading • Writing • Arithmetic and mathematics • Speaking • Listening
Thinking Skills	<ul style="list-style-type: none"> • Thinking Creatively • Making Decisions • Solving problems • Seeing things in the mind's eye • Knowing how to learn • Reasoning
Personal Qualities	<ul style="list-style-type: none"> • Individual responsibility • Self-esteem • Sociability • Self-management • Integrity

The not-for-profit sector responded to the report as well, and many non-school organizations and agencies implemented programs designed to give youth opportunities to learn the skills and competencies required to be work ready – particularly within “at-risk” populations. Since publication of the SCANS Report, many work readiness programs have incorporated the Report’s findings into their program development and implementation activities (see for example Harkins, 2001; Kowalski, Weaver, Green, & Pfaller, 1993; Packer, 2001).

That was the easy part.

The Challenge

The greater challenge faced by work readiness programs is forging the link between assessment tools that adequately capture changes in youth's skills and competencies and the recommendations found in the SCANS Report. Program administrators are called upon to more accurately document program effects, especially those purported to change behaviors or increase skills and competencies (Clements, 1999).

Changes in human behavior, an increase in a desirable (or decrease in an undesirable) skill, behavior, or quality are difficult at best to document, much less to attribute to any specific program (Bernard, 2000; Posavac & Carey, 1997). Evaluation professionals in the past relied upon some combination of end-of-program and/or follow-up knowledge tests, or individuals' predictions of future behaviors. Longitudinal studies are often outside of organizational capabilities due to funding constraints (Bernard, 2000; Posavac & Carey, 1997).

Paper and pencil assessments, however, whether performed before, during or after program participation do not accurately measure skills or behavior – *knowing* is not equivalent to *doing*. Evaluators have tried to bridge this gap by administering post-post self-report questionnaires and conducting interviews in an effort to cobble together enough information to ascertain whether programs had the desired results (Bernard, 2000; Clements, 1999).

The challenge to document change in at-risk youth is further compounded. Research indicates that youth of low socioeconomic status are often diagnosed with learning disabilities, and many youth have below grade literacy levels (Blair & Scott, 2002; Olson & Jerald, 1998).

Children with these difficulties may also suffer from test anxiety, and may not perform well with traditional paper and pencil assessments (Goonan, 2003). This problem further complicates the notion that scores may not capture participant gains in knowledge and competencies.

Evaluators often face this scenario when they *know* youth exhibited gains as a result of program participation, but traditional assessment results do not reflect achievement. So, even if a paper and pencil instrument can (or theoretically could) adequately capture improvements in skills and/or behaviors, the difficulties many at-risk youth face would continue to confound assessment results.

The problem, then, is just how *do* youth work readiness programs measure gains in skills, competencies and personal qualities identified in the SCANS Report?

The Solution

The first part of the solution is to use the SCANS Report as a guide to develop a program specific data collection tool that emphasizes actions over knowledge. The second part is to capture changes in youth attributes while they *are engaged in learning, practicing, and/or implementing* the desired skills and behaviors.

Successful work readiness programs include opportunities for youth to acquire and practice specific skills identified in the SCANS Report through service learning, internships, simulations, entrepreneurship programs, etc. This facilitates data collection while youth are *in the act* of using the desired skills.

The following case study illustrates how a program-specific SCANS Skills and Competencies Check list can be an ideal tool to include as part of a comprehensive evaluation protocol.

Case Study

The Program

The Rutgers Cooperative Research & Extension (RCRE) Youth Farmstand Program is a statewide, interdisciplinary program designed to increase workforce readiness skills in at-risk youth, support local farmers, and build healthier, stronger communities. Specifically, youth-operated farmstands provide at-risk and special needs youth (grades 9-12) with opportunities to develop and practice many of the work readiness skills defined in the SCANS Report. Participants make most decisions related to stand operations and receive a share of the profits at the end of the selling season.

The evaluation team needed to develop assessment tools that did not rely solely upon paper and pencil instruments, especially since program participants were at-risk youth and/or special needs youth.

Instrument Development

The team developed multiple methods and tools to triangulate data without increasing participant anxiety. The *SCANS Skills & Competencies Checklist* (the SCANS Checklist) was created, based upon the skills, competencies and personal qualities outlined in the SCANS Report. The team used the following process to develop the assessment:

1. Identified tasks and skills youth could learn, develop and practice as program participants.
 - Interviewed program faculty and staff.
 - Observed the program in action.
2. Matched identified *program specific skills* to relevant categories from the SCANS Report (see example Table 2).
3. Created assessment tool incorporating SCANS Report terminology *and* program specific skills (revised version shown in Table 3).

Table 2

Example of Matching Program Skills to SCANS Skills and Competencies

Personal Qualities	RCRE Youth Farmstand Program Skill
Responsibility	Works hard at tasks (even if unpleasant)
	Arrives to work on days scheduled
	Dresses appropriately (uniform, badge)
	Understands workplace expectation
	Arrives to work on time
	Positive attitude in completing tasks
Self-Esteem	Believes in own self-worth
	Has knowledge of own skills and abilities
	Is aware of his/her impact on others
Sociability	Relates well to others
	Responds appropriately to situation
	Takes interest in what others say and do
Self-Management	Assumes responsibility for actions & decisions
	Exhibits self-control
	Responds to feedback non-defensively
	A "self-starter"
	Sets well-defined and realistic personal goals
Integrity & Honesty	Can be trusted
	Bases decisions on values and goals
	Chooses an ethical course of action

The SCANS Checklist designed for the Youth Farmstead Program was piloted in the summer of 2004. Subsequent focus groups with program staff revealed:

1. The instrument contained redundancies.
2. Instructions were not clear.
3. The *subjective* rating system lacked *objective* guidelines.
4. Program personnel did not understand clearly how results would be utilized. Supervisors gave youth high ratings *at the very beginning* of the program because they did not want anyone chastised, or worse, fired, for substandard performance!

The revised checklist incorporated changes suggested by program personnel (Table 3). Staff were trained in assessment procedures during orientation and provided with a copy of the *complete* Youth Farmstand Program Evaluation Protocol. (Note, the Checklist uses only one page, front and back.)

Table 3
SCANS Skills and Competencies Checklist

Name _____		Date _____	
<i>Category</i>	<i>Skill</i>	<i>Rate</i>	<i>Comments</i>
Responsibility	Works hard at tasks (even if unpleasant)		
	Arrives to work on days scheduled		
	Dresses appropriately (uniform, badge, etc.)		
	Understands workplace expectations		
	Arrives to work on time		
	Positive attitude in completing tasks		
Self-Esteem	Believes in own self-worth		
	Has knowledge of own skills and abilities		
	Is aware of his/her impact on others		
Sociability	Relates well to others		
	Responds appropriately as situation requires		
	Takes an interest in what others say and do		
Self-Management	Assumes responsibility for own actions & decisions		
	Exhibits self-control		
	Responds to feedback non-defensively		
	A "self-starter"		
	Sets well-defined and realistic personal goals		
Integrity & Honesty	Can be trusted		
	Bases decisions on values and goals		
	Chooses ethical courses of action		
Completes tasks	Unloads & stocks produce		
	Set-up stand (or assist with)		
	Take stand down (or assist with)		
	Displays produce neatly and creatively		
	Follows directions		
	Cleans stand as appropriate		
	Completes tasks in a timely manner		
Customer service	Acknowledges and greets customers		
	Smiles at customer		
	Speaks clearly, audibly, and courteously		
	Uses eye contact		
	Listens to customers with concern		
	Uses "please," "thank-you," "excuse me"		
	Does not react negatively (or over-react)		
	Does not swear or curse		
	Asks supervisor for help when needed		
	Works with supervisor to resolve conflicts		
Teamwork	Shows respect for others' opinions		
	Helps others w/tasks (even if not "his/her job")		
	Mentors other workers (teaches, advises)		
	Does not make rude comments (curse, racial, etc.)		
	Contributes equally to group efforts		

	Does not shun people different from him/her		
	Directs co-workers in a professional manner		
	Demonstrates leadership (versus "bossiness")		
	Uses "please," "thank-you," "excuse me"		
Information processing	Identifies produce correctly		
	Identifies over-ripe and spoiled produce		
	Identifies NJ grown products (Jersey Fresh)		
	Suggests appropriate cooking methods		
	Sprays greens when needed		
	Places heavy items in shopping bags first		
	Describes nutritional value of produce		
Weights and measures	Dozen: 1/2, 1, and 1-1/2		
	Pound: 1/4, 1/2, 3/4, 1		
	Bushel: quarter, half, whole		
	Case: half, whole		
	Flat; half, whole		
Money	Coins: penny, nickel, dime, quarter		
	Cash: \$1, \$5, \$10, \$20		
	FMNP Vouchers: Senior and WIC		
	Change up to \$20 bill		
	Government vouchers (no change, stamp)		
Business systems (inventory, order, pricing, banking, etc.)	Accomplishes tasks in proper order		
	Fills out bank deposit slips		
	Balances cash drawer		
	Prepares customer bill/receipt (if applicable)		
	Administers customer & WIC/Senior surveys		
	Price sheets		
	Employee manual		
	Prices produce correctly		
	Generates accurate produce order		
Health and safety	Cautious during stand set-up & take down		
	Sun and heat safe practices		
	Assists in stand security		
	Uses safe produce handling procedures		
	Weighs produce with accuracy to 1/4 pound		
	Performs basic math functions accurately		
	Can use calculator without help		
	Sorts money into correct compartments		
	Rings up purchase accurately		
	Can use cash register without help		
Additional Comments			
Supervisor _____			

SCANS Checklist Protocol: Administration and Analyses

Adult supervisors and managers independently (and discreetly) rate each participant's progress towards acquiring identified program skills. Supervisors may record additional comments if desired to expand upon their observations.

The checklist is completed three (3) times during the program and a total score is derived per assessment. A minimum of two (2) adults rate each youth at each site, and scores are averaged to minimize potential biases.

The following rating scale (Table 4) provides pseudo-objective parameters for scoring:

Table 4
SCANS Checklist Rating Scale

Rating	Criteria
Outstanding	Demonstrates skill (attribute) with <i>no</i> reminders. Helps others acquire skill.
Satisfactory	Demonstrates skill most of the time. Rarely needs reminders.
Shows Improvement	Demonstrates skill or attribute with some reminders.
Needs Improvement	Needs more practice or constant reminders.
Not Applicable	Skill not observed or not required.

Paired t-test analyses determine whether youth demonstrated statistically significant overall gains between t_1 , t_2 , and t_3 . Additional analyses can identify change across time between program sites, subgroups, individual youth, or even select skills, competencies and qualities.

Observational assessments are inherently fraught with threats to reliability and validity (see for example Bernard, 2000; Pullin, 1994), however, the SCANS Checklist can identify behavioral changes more accurately than can be captured using traditional paper and pencil methods *in the target audience*.

The Checklist is only one component of the RCRE Youth Farmstand Program evaluation protocol. Results are further analyzed *in conjunction with* other tools to determine whether youth demonstrate real gains in skills, competencies, and personal qualities.

Adapting the SCANS Checklist

Program evaluators must explore creative methods and tools to measure real change in skills and competencies, particularly with at-risk youth audiences. The SCANS Checklist is just such a tool. It can be customized easily for use with programs that include an experiential learning component by following the guidelines below:

1. Clearly define program goals and objectives.
2. Identify tasks and skills youth can learn, develop and practice as program participants.
 - Interview program staff.
 - Observe program in action.
3. Match identified *program specific skills* to relevant categories from the SCANS Report (see Worksheet 1).
4. Create assessment tool incorporating SCANS Report terminology *and* program specific skills (refer to Table 3).

Worksheet 1

Adapting the SCANS Checklist to other Youth Work Readiness Programs

SCANS Skill or Competency	Example Tasks	Program Skill
Resources	<ul style="list-style-type: none"> • Allocating time, money, materials, space, and staff 	
Interpersonal Skills	<ul style="list-style-type: none"> • Working on teams • Teaching others • Serving customers • Leading • Negotiating • Working well with people from culturally diverse backgrounds 	
Information	<ul style="list-style-type: none"> • Acquiring and evaluating data • Organizing and maintaining files • Interpreting and communicating • Using computers to process information 	
Systems	<ul style="list-style-type: none"> • Understanding social, organizational, and technological systems • Monitoring and correcting performance • Designing or improving systems 	
Technology	<ul style="list-style-type: none"> • Selecting equipment and tools • Applying technology to specific tasks • Maintaining and troubleshooting technologies 	
Basic Skills	<ul style="list-style-type: none"> • Reading • Writing • Arithmetic and mathematics • Speaking • Listening 	
Thinking Skills	<ul style="list-style-type: none"> • Thinking Creatively • Making Decisions • Solving problems • Seeing things in the mind's eye • Knowing how to learn • Reasoning 	
Personal Qualities	<ul style="list-style-type: none"> • Responsibility • Self-Esteem • Sociability • Self-Management • Integrity & Honesty 	

References

- Bernard, H.R. (2000). *Social research methods: Qualitative and quantitative approaches*. Thousand Oaks, CA: Sage Publications.
- Blair, C., & Scott, K.G. (2002). Proportion of LD placements associated with low socioeconomic status: Evidence for a gradient? *Journal of Special Education, 36*(1), 14-22.
- Clements, J. (1999). Results: Behavior change. *Journal of Extension* [On-line], *37*(2). Available at: http://www.joe.org/joe/1999_April/comm1.html
- Goonan, B. (2003) Overcoming test anxiety: Giving students the ability to show what they know. (ERIC Document Reproduction Service No. ED480053)
- Harkins, M.A. (2001). Developmentally appropriate career guidance: Building concepts to last a lifetime. *Early Childhood Education Journal, 28*(3), 169-174.
- Kowalski, T.J., Weaver, R.A., Green, J.E., & Pfaller, J.E. (1993). Developing a world class work force: Business and industry, government, and schools respond to school reform. *Contemporary Education, 64*(2), 94-98.
- Olson, L., & Jerald, C.D. (1998). The achievement gap. *Education Week, 17*(17), 10-13.
- Packer, A.H. (2001). The career transcript system for lifelong learning. *Community College Journal, 71*(5), 24-28.
- Posavac, E.J., & Carey, R.G. (1997) *Program evaluation: Methods and case studies*. Upper Saddle River, NJ: Prentice Hall.
- Pullin, D.C. (1994). Learning to work: The impact of curriculum and assessment standards on educational opportunity. *Harvard Educational Review, 64*(1), 31-54.
- U.S. Department of Labor. (1992). *Learning for living: A blueprint for high performance*. Retrieved April 13, 2004 from <http://wdr.doleta.gov/SCANS/lal/lal.pdf>