

Building Fluent Skills and Knowledge with Efficient Practice Activities

Presenter

Dr. Carl Binder has been a leader in instructional design and human performance technology for over 25 years, and is especially known for his development of fluency-based performance systems. He publishes and speaks to diverse audiences and provides strategic performance consulting to private and public sector organizations.

Session description

A simple three-stage model of learning divides the process into *initial learning* (to accuracy), *practice* (to build fluency and endurance), and *application* (to ensure final performance). Most training programs skip the second stage, expecting learners to leap from the hesitant performance produced in initial learning to confident application, without having a chance to build fluency in critical skill and knowledge components. This is a highly inefficient, and often ineffective approach that generally fails to produce desired changes in job performance. In this session, participants will learn:

- when and why fluency should be a program objective
- practical guidelines and templates for building fluency, and
- how to include fluency practice in classroom, self-study, and coaching programs.

The session will provide examples and present principles from over 25 years of research and development in behavioral science, education, and corporate performance improvement programs.

Additional resources

Here are some additional sources of information about fluency-based design:

Web site

- www.Binder-Riha.com, where you'll find articles, references, and more.

Published Articles

- Binder, C. Behavioral Fluency: Evolution of a New Paradigm, *The Behavior Analyst*, Fall, 1996
- Binder, C. Fluency: A New Paradigm: *Educational Technology*, October, 1993.
- Binder, C. Closing the Confidence Gap, *Training*, September, 1990.
- Binder, C., and Bloom, C. Fluent Product Knowledge: Application in the Financial Services Industry. *Performance & Instruction*, February, 1989.
- Snyder, G. Training to Fluency: A Real Return on Investment. *Performance Management Magazine*, Summer, 1992.

Recent Chapter

- Binder, C. Fluency Development. In Langdon, D.G., Whiteside, K.S., and McKenna, M.M. (Eds), *Intervention Resource Guide*. San Francisco: Jossey-Bass, 1999.
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Fluency = Accuracy + *Speed* = True Mastery

Category	Fluency Blockers	Fluency Builders
Measurement	<p>Measurement procedures that ignore the time dimension.</p> <p>Measurement procedures with too few response opportunities for the allotted time.</p>	<p>Time-based performance measurement and evaluation.</p> <p>More response opportunities than an expert can complete in the time allowed.</p>
Procedures	<p>Too few practice opportunities.</p> <p>Preventing learners from moving at their own pace.</p> <p>Limited response opportunities per minute.</p> <p>Emphasis on preventing errors during learning.</p>	<p>Sufficient practice to attain fluency.</p> <p>Self-paced learning and practice procedures.</p> <p>Many opportunities per minute for active responding.</p> <p>Treating errors as “learning opportunities.”</p>
Materials	<p>Too few examples.</p> <p>Materials that are difficult to use, waste paper, movement, etc.</p> <p>Unnecessarily wordy worksheets and directions.</p> <p>Difficult-to-read and comprehend.</p>	<p>Many examples.</p> <p>Easy-to-manipulate or use, efficient use of paper, space and movement.</p> <p>Succinct worksheets and directions.</p> <p>Easy-to-read and comprehend.</p>
Skill Elements	<p>Critical steps in procedures or chained skills that are not fluent.</p> <p>“Tool” skills or elements that are not fluent.</p>	<p>Fluent steps in procedures.</p> <p>Fluent “tool” skills or elements.</p>
Knowledge Elements	<p>Prerequisite knowledge that is not “second nature” or fluent.</p> <p>Inability to fluently locate critical information.</p>	<p>Fluent prerequisite knowledge (facts, concepts, structures, principles, classifications or processes.)</p> <p>Ability to use reference systems or job aids fluently, confidently.</p>

For more information about the FluencyBuilding™ methodology, including published articles and research reviews, or to discuss on-site workshops for your organization, call 1-800-FLUENCY(358-3629) or visit www.Binder-Riha.com.

Training '99 - Building Fluent Skills & Knowledge

Building Fluent Skills and Knowledge with Efficient Practice

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Agenda

- Background: Mine and Yours
- What IS Behavioral Fluency?
- The Research: WIIFM?
- Designs for the Three Stages of Learning
- Guidelines for Building Fluent Performance
- Implementing Fluency-based Programs
- Questions and Discussion

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Nice to Meet You! What do YOU do?



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What is Behavioral Fluency?

- You will have exactly 1 minute.
- Write (abbreviate) as many words or phrases as you can think of in association with this term.

Kindly don't start.....

....until I say....

"Please begin!"

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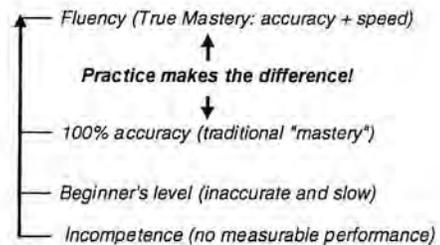
Fluency: The Definition of Mastery

Fluency = Accuracy + Speed
= Quality + Pace
= Doing the Right Thing without Hesitation
= Automatic or "Second Nature" Response
= True Mastery

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Levels of Performance



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Michael Jordan on Practice

"If you want to get better at anything, you have to practice. There's no other way to do it. For me practicing is fun. I enjoy improving myself, and I enjoy developing new skills."

*Michael Jordan, 1991
Television Spot*

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Research on Fluency

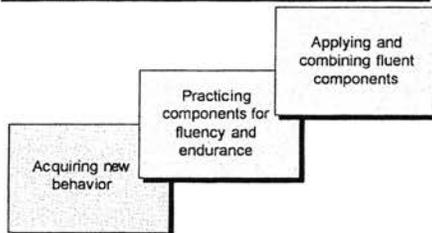
- **Retention** and maintenance of skills and knowledge
- **Endurance**, attention span, resistance to distraction
- **Application** or transfer of training on the job and in subsequent learning

Key Learning Outcomes

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Design for Stages of Learning



Each requires different procedures and materials.

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Acquiring New Behavior

- Focus on getting it "right"
- Well-understood learning/teaching procedures:
 - Rules and strategies
 - Examples and non-examples
 - Fading out models, prompts, and cues
- Often tightly controlled by instructor or materials
- Usually slow, relatively few active response opps.

Most training accomplishes this stage fairly well.

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Practice for Fluency and Endurance

- Focus on quickness, smoothness, confidence.
- Practice component skills and knowledge before combining them into larger "chunks."
- Use multiple brief practice durations at first.
- Lengthen practice after achieving fluency in short intervals.
- Provide many opportunities for active responding.
- Shift to self-managed and self-measured practice.

Often skipped - going straight to Application!

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Applying & Combining Fluent Components

- Focus on behavior that reflects "real" performance.
- Arrange opportunities to use fluent components to solve problems, be creative, perform work.
- Use case studies, simulations, games, projects, etc.
- Diagnose problems by identifying missing components.
- Eliminate learning problems with component practice.
- Build "higher order" skills and knowledge on a foundation established in Stage Two.

Learners lacking fluent components experience failure.

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Example: Sales Knowledge

- Exercises
 - See/Say facts and associations from cards
 - Free/Say rapid recall facts
 - Hear/Say answers to questions and objections
 - Free/Say make brief presentations on topics
- Results
 - New hires know more than experienced reps
 - Increased cross-selling
 - Improved ramp-up to sales goals

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Example: Customer Care Call Center

- Exercises
 - See/Say cards with basic facts and screen codes
 - Free/Say rapid recall key facts
 - Hear/Say responses to questions
 - See/Do apply job aids to diagnose problems
- Results
 - training required less time, was more fun
 - new hires passed tests at higher levels than experienced reps
 - new hires hit benchmarks second day on job

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Errors as Learning Opportunities

“You fall a thousand times. You don’t learn anything if you don’t fall.”

*Scott Hamilton
Champion Figure Skater
1998 Olympics, Nagano
TV Commentary*

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Key Questions for Analysis

- What do performers DO?
- What must they KNOW fluently?
- What must they be able to LOOK UP fluently?

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Implementation Planning

- Identify factors needed to ensure successful participation in:
 - self-managed study and practice
 - course activities, and
 - application on the job
- Obtain VISIBLE support from Management to provide Accountability, Coaching, and Incentives

Move toward a Culture of Practice.

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The Six Boxes™ (Controllable Behavior Influences)

ENVIRONMENT EMPLOYEE	Expectations & Feedback	Tools & Resources	Consequences & Incentives
	Skills & Knowledge	Selection & Assignment (Capacity)	Motives & Preferences (Attitude)

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The Rehabilitation of Practice

- **Reasons traditional "drill & practice" fails:**
 - lacks explicit fluency criteria as practice goals
 - long durations stretch endurance and attention
 - often the "chunks" are too big
- **Reasons well engineered practice succeeds:**
 - explicit time-based practice goals drive motivation
 - brief practice durations allow peak performance
 - builds fluent elements before application

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Fluency and Evaluation

1. **Reaction:** *Fluency is fun! It builds confidence.*
2. **Learning:** *Measure fluency for big gains.*
3. **Performance on the job:** *Links time-based fluency goals to job performance requirements.*
4. **Business results:** *Improved sales, marketing, and bottom-line results. Reduced costs.*

Fluency Bridges the Four Levels

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"Fluency bridges the gap between learning and performance."

- Carl Binder



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Selecting Practice Activities for Sales and Service Workers

Introduction

Here is a tool that will help you select among common activities for sales and service workers.

