Work-Based Learning Experiences for **High School Students** with Autism Spectrum Disorder (ASD)

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Overview

Needs of students with ASD approaching adulthood

What are Work-Based Learning Experiences?

Applications

Projects implementing WBLE

Suggestions

Limitations

Implications for Research and Practice

Prevalence of Autism Spectrum Disorder (ASD)

Surveillance Year	1 in
2000	150
2002	150
2004	125
2006	110
2008	88
2010	68

(CDC, 2014)



Full-Time Employment (21-25 Year Olds)



Postsecondary Engagement

Engagement lower than other disability categories across the board in:

Any vocational or technical education: 9.3%

Any 2-year college: 28.0%

Any 4-year college: 12.1%

Any paid employment: 55.1%

No participation: 34.9%

students with ASD for

How do we prepare

employment after high school?

Work-Based Learning Experiences

Identified as a predictor of post-school success

 Organized and structured within Richard Luecking's 2009 The Way to Work

Planned to assist students in developing skills and an increased knowledge of their needs and strengths

 Support a student's postsecondary goals regarding college and careers

Types of Work-Based Learning Experiences

- Career
 Exploration
 Mentoring
- 2. Job Shadowing
 - adwing 7. Apprenticeships
- 3. Work Sampling
- 8. Paid Employment

4. Internships



Career Exploration

Learn about jobs and the skills required performing them

Visits and meetings with employers and people in identified occupations outside of the workplace are also types of career exploration activities from which youth can learn about jobs and careers

Brief exposure to a specific kind of work environment or job type







Job Shadowing

Extended time, often a full workday or several workdays, spent by a youth in a workplace accompanying an employee in the performance of his or her daily duties

Introduce students to workplace circumstances and provide them with initial knowledge about work and careers





Work Sampling

 Learn aspects of potential job tasks and "soft skills" required in the workplace

Especially useful for youth who have difficulty generalizing their education from situated environments, discover work preferences and interests, and identify accommodation needs





Internships

 Internships are formal agreements whereby a youth is assigned specific tasks in a workplace over a predetermined period of time

 Internships may be paid or unpaid, depending on the nature of the agreement with the company and the nature of the task





Service Learning



 Hands-on volunteer service to the community that integrates with course objectives

 It is a structured process that provides time for reflection on the service experience and demonstration of the skills and knowledge required





Mentoring



Mentoring relationships provide valuable support to young people, especially those with disabilities, by offering not only academic and career guidance, but also effective role models for leadership, interpersonal, and problem-solving skills





Apprenticeships

Formal, sanctioned work experiences of extended duration

 Learn specific occupational skills related to a standardized trade, such as carpentry, plumbing, or drafting

Many apprenticeships also include paid work components



Paid Employment

May include existing standard jobs in a company or customized work assignments that are negotiated with an employer, but these jobs always feature a wage paid directly to the youth

Such work may be scheduled during or after the school days. It may be integral to a course of study or simply a separate adjunctive experience







WBLE Can Be...

 Applied across a variety of settings with individuals with and without disabilities

Informing the transition assessment process and increase students' skills, in preparation for their postsecondary goals

(Test, Fowler, et al., 2009; Test, Mazzotti, et al., 2009; Test, Smith, & Carter, 2014)

WBLE with Students with ASD

Currently there is limited research in individuals with ASD

Current projects:

- Project SEARCH
 - Hospital settings

CSESA

(Test, Fowler, et al., 2009; Test, Mazzotti, et al., 2009; Test, Smith, & Carter, 2014)

ASD with WBLE

 Continued need for program development between school and community settings

Individuals with ASD are a heterogeneous population with diverse needs

 Support for students can include practices from 27 evidence-based practices identified for individuals with ASD

Current Project: CSESA

Center on Secondary Education for Students with Autism Spectrum Disorder (ASD)

- Research & Development Center
- Funded by the Department of Education (IES)
- Purpose: To develop and study a comprehensive high school program for students on the autism spectrum



The Goal of CSESA

To improve postsecondary outcomes for students by using high quality professional development and evidence-based interventions to support practitioners, families, and students



















CSESA Timeline





CSESA Components



CSESA Components



Transition & Families

Transition Process

- School and Community Resource Mapping
- Transition Planning Process
- Student Involvement in the IEP
- Work-Based Learning Experiences



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Work-Based Learning Experiences



CSESA with WBLE

Identification of college-ready and career-ready activities

Career-Ready	College-Ready
Student Activities	Student Activities
Resources	Resources



Sample Student Activities & Resources

SESA

Career Ready		College Ready	College Ready	
Student Activities	 Participate with a significant adult in a 'take your child to work' day Disability Mentoring Day through a local company or program Complete Job-Simulations on 	Student Activities• Shadow a student in a major of interest• Conduct a role-play with a disability services counselor• Conduct a role-play with a professor		
	 Campus Create Task Prompts while Observing a Job Job Characteristics Checklist 	George Washington University toolkit will give you tips on how to request up-coming opportunities to shadow at a	· ·	
Resources	 The High School/High Tech Program (HS/HT) provides Job Shadowing experiences including careers in science, mathematics, and technology 	 local college/ university Norwich University: ways to strategize methods to help yo overcome some of those temporary barriers 	U	

Suggested Timeline Across High School

9 th Grade	<u>10th Grade</u>	<u>11th Grade</u>	12 th Grade and Beyond	
Career Exploration	Career Exploration	Service Learning	Service Learning	
Job Shadowing	Job Shadowing	Internship	Internship	
Work Sampling	Work Sampling	Paid Employment	Paid Employment	
Mentoring	Mentoring	Apprenticeship	Apprenticeship	
		Mentoring	Mentoring	

Students will complete activities within **2 WBLE experiences** each school year



Common Core Standards:	
Warm Up:	Vocabulary
Learn about the importance of mentoring through reading about Disability Mentoring	
Day. Participating in this day will help build a mentoring relationship with another	Mentoring
individual	
Differentiation: Checklist	Disability
Lesson:	
Student will read about Disability Mentoring Day and the opportunities it offers students	
participating in it	
Differentiation: Picture prompts, definition	
Guided Practice:	
 Read about Disability Mentoring Day with student 	
Differentiation: Picture prompts, read aloud with student	
Independent Practice:	Teacher
 Student will answer questions on a worksheet about Disability Mentoring Day 	Materials/
Differentiation: Model answering the first series of questions; provide a choice list for the	Technology
student	
Assessment:	Smart board/ White board
 Student's answers on the worksheet about Disability Mentoring Day 	white board
	Desktop/
Differentiation: Model writing a goal, photo/picture/word prompts of choices	Laptop
	Computer

CSESA



- To be incorporated in the classroom or in practice at a
- Community-Based Instruction site
- Embed relevant Evidence-Based
 Practices

Calendar of Community-Based Instruction Sites





Sample Task List

Today's Site: Habitat Restore

Wash windows

- Get rags from kitchen
- o Get Windex from cupboard in kitchen
- o Clean all the front windows
- Wash front doors
 - Use rags
 - o Use Windex from cupboard in kitchen
 - o Clean with two front doors at the front of the store
- Check with Supervisor

Evidence-Based Practices for Individuals with ASD

 27 identified in a recent report by the National Professional Development Center (NPDC) housed at UNC-Chapel Hill



The National Professional Development Center on Autism Spectrum Disorder

Online modules released by Autism-Focused Internet Modules (AFIRM)



(Wong et al., 2014)
Antecedent- Based Intervention	Functional Communication Training	Peer-Mediated Instruction and Intervention	Reinforcement	Social Narratives	Video Modeling
Cognitive Behavioral Intervention	Modeling	Picture Exchange Communication System	Response Interruption/ Redirection	Social Skills Training	Visual Support
Discrete Trial Training	Naturalistic Intervention	Pivotal Response Training	Scripting	Technology- Aided Instruction and Intervention	
Exercise	Parent- Implemented Intervention	Prompting	Self- Management	Time Delay	

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Modeling

"Demonstration of a desired target behavior that results in imitation of the behavior by the learner and that leads to the acquisition of the imitated behavior. This EBP is often combined with other strategies such as prompting and reinforcement."

New EBP identified in the 2014 review

Practice brief not yet available



Prompting

"Verbal, gestural, or physical assistance given to learners to assist them in acquiring or engaging in a targeted behavior or skill. Prompts are generally given by an adult or peer before or as a learner attempts too use a skill."



Self-Management

"Instruction focusing on learners discriminating between appropriate and inappropriate behaviors, accurately monitoring and recording their own behaviors, and rewarding themselves for behaving appropriately."



(Wong et al., 2014)

Social Narratives

"Narratives that describe social situations in some detail by highlighting relevant cures and offering examples of appropriate responding. Social narratives are individualized according to learner needs and typically are quite short, perhaps including pictures or other visual aids."

Social Narrative

Independent Visit to The Metropolitan Museum of Art for Teens and Adults on the Autism Spectrum



The Metropolitan Museum of Art

Task Analysis

"A process in which an activity or behavior is divided into small, manageable steps in order to assess and teach the skill. Other practices, such as reinforcement, video modeling, or time delay are often used to facilitate acquisition of the smaller steps."

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Wash windows
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Wash front doors
 Use rags
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Check with Supervisor

Technology-Aided Instruction and Intervention

"Instruction or interventions in which technology is the central feature supporting the acquisition of a goal for the learner. Technology is defined as "any electronic item/ equipment/application/or virtual network that is used intentionally to increase/ maintain, and/or improve daily living, work/productivity, and recreation/leisure capabilities of adolescents with autism spectrum disorders" (Odom, Thompson, et al., 2013)."



Video Modeling

"A visual model of the targeted behavior or skill (typically in the behavior, communication, play, or social domains, provided via video recording and display equipment to assist learning in or engaging in a desired behavior or skill."



Visual Support

"Any visual display that supports the learner engaging in a desired behavior or skills independent of prompts."

 Examples of visual supports include pictures, written words, objects within the environment, arrangement of the environment or visual boundaries, schedule, maps, labels, organization systems, and timelines.



Limitations

 CSESA is a two-year project, still waiting on information from coaches and schools about complete WBLE implementation

Based on feedback in pilot studies, it can be a challenge to extend WBLE to students with ASD in general education classrooms who may not have a resource room slot/class in their schedule

- Capturing fidelity that shows WBLE comparably implemented across studies
- Schools within spread-out or rural communities, makes it difficult to visit job sites

Reliance on small, independent businesses, some larger corporations have liability policies and extra hoops for coordinators and school personnel to jump through

Implications For Research

 Need for more research on the development of work-based learning as a practice for students with ASD

- Development within a comprehensive transition program
- Incorporated within transition planning
- Further understanding of the benefits WBLE may have on future employment

Implications For Practice

 Identification and application of work-based learning experiences for students with ASD

- Individualization of practices
- Incorporate results of transition assessment
- Embed as a goal within transition planning
- Let WBLE guide future transition assessments, planning, and goals
- Service agencies involvement



THANKS! ANY QUESTIONS?

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