EI/ECSE Standard 4 Component 4.2

Overview & Speaker Notes

Intended Audience:

Overview for Facilitators:

ECPC has developed an anchor presentation for each of the Initial Practice-Based Professional Preparation Standards for Early Interventionists/Early Childhood Special Educators (EI/ECSE). The components under each standard are presented separately. The materials are designed for an in-service professional development (PD) program but can be used in a pre-service teacher preparation course. This resource will increase professionals' ability to address each of the EI/ECSE standard and components. Additional materials for each standard can be found on the ECPC Website: Curriculum Module | The Early Childhood Personnel Center (ecpcta.org)

Speaker Notes

The speaker notes provide a narrative and activities for each slide. You will see speaker notes for most of the slides within the slide deck. The notes provide additional details about the information on a particular slide, including the context for the information and key points. The notes are a guide, and speakers should feel free to modify these as needed. Please note the following:

 The narrative is a sample script for the presenter. Although you may read it verbatim, speaker notes are intended as a guide for the presenter, and you may modify them as needed.

Materials Required for face to face

- 1. Share the outline with timelines for the training (build in breaks)
- 2. Conduct an opening activity (introductions/ice breaker)
- 3. Computers or tablets with internet access for participants (if possible)
- 4. Handouts
- 5. Projector with audio capable for playing video with speakers
- 6. Presentation slides with speaker notes
- 7. Develop an evaluation tool for all attendees (e.g., continuous improvement activity)

Materials Required for virtual

- 1. Distribute the link to the online platform in advance
- 2. Share the outline with timelines for the training (build in breaks)
- 3. Conduct an opening activity (introductions/ice breaker)
- 4. Determine how participants will receive handouts and materials, on the cloud, using a storage platform (e.g., dropbox, google, etc.)
- 5. Platform to share presentation (e.g., zoom, teams, etc.) with polling questions prepared in advance and breakout room capability
- Upload or send handouts in advance or through platform (insert through chat)
- 7. Download videos ahead of time to prepare for low bandwidth from slide deck

- 8. Share screen capability (be sure to enable sound for videos)
- 9. Develop an evaluation tool for all attendees (e.g., continuous improvement activity)

Objectives for Standard 4, Component 4.2:

After participating in this professional learning opportunity, participants will be able to:

- Describe the psychometric properties of assessment measures, including types of validity and reliability.
- Identify criteria for selecting and administering formal assessment tools
- Identify criteria for selecting and administering informal assessment methods
- Describe the key elements of an authentic assessment
- Describe the use of technology in the assessment process

Outline of Session Activities

Topic	Slides	Activity
Introduction/Objectives	1-4	
Understanding and Evaluating Assessment Tools: Why Is This Important?	5	
Formal Assessment Tools in EI/ECSE	6	
It's Up to You: Be a Knowledgeable Consumer	7	
Psychometrics	8	
Reliability	9-11	
Validity	12-15	Discussion activity (Slide 15)
Selecting the Right Assessment Tools	16	
Formal & Informal Assessment	17	
Criteria for Formal Assessment	18	
Criteria for Informal Assessment	19-20	
The overlap	21	
Using the best practice: Authentic Assessment	22-29	Video (Slide 29)
Technology: Enhancing Authentic Assessment	30-31	Activity (Slide 30) Video (Slide 31)
Resources & References	32-34	

Speaker Notes with Slides

Slide 1		
	Assessment Processes	
	Initial Practice-Based Professional Preparation Standards Early Interventionists/Early	
	Childhood Special Educators	
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Slide 2	Standard 4	
	Candidates know and understand the purposes of assessment in relation to ethical and legal considerations. Candidates choose developmentally,	
	linguistically, and culturally appropriate tools and methods that are responsive	
	to the characteristics of the young child, family, and program. Using evidence-	
	based practices, candidates develop or select as well as administer informal measures, and select and administer formal measures in partnership with	
	families and other professionals. They analyze, interpret, document, and share	
	assessment information using a strengths-based approach with families and	
	other professionals for eligibility determination, outcome/goal development,	
	planning instruction and intervention, monitoring progress, and reporting.	
	Ent Office Proceedings	
Slide 3	 	
Silde 5	Component: 4.2	
	Component in	
	Candidates develop and administer informal	
	, i	
	assessments and/or select and use valid, reliable	
	formal assessments using evidence-based	
	practices, including technology, in partnership with	
	families and other professionals.	
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Slide 4		
	Objectives	
	Describe the psychometric properties of assessment	
	measures, including types of validity and reliability.	
	Identify criteria for selecting and administering formal	
	assessmenttools	
	 Identify criteria for selecting and administering informal assessment methods 	
	Describe the key elements of an authentic assessment	
	Describe the key elements of an authentic assessment Describe the use of technology in the assessment process	
	Describe the key elements of an authentic assessment Describe the use of technology in the assessment process B C	

Slide 5	Understanding and Evaluating Assessment Tools: Why Is This Important? • EI/ECSE professionals select and evaluate appropriate assessment measures • Should understand limitations of assessment • Cross-disciplinary professionals need a shared understanding of what assessment results mean, their limitations, and how to explain simply to families	EI/ECSE professionals need to select and evaluate appropriate assessment measures. Should understand limitations of assessment measures esp. when used with diverse populations of children. Cross-disciplinary professionals need shared understanding of what assessment results mean, their limitations, and how to explain simply to families.
Slide 6	Formal Assessment Tools in EI/ECSE • Formal assessment tools used in EI/ECS are not always designed to capture authentic and accurate data about young children's functional competencies in meeting the challenges of real-life routines (Bagnato et al, 2014)	Although we often think of the standardized assessments we use to evaluate young children in EI/ECSE as fully evidence-based and appropriate for the children we serve, the research supporting early childhood assessment tools as a whole is "weak, and often nonexistent" (Bagnato et al., 2014).
Slide 7	It's Up to You: Be a Knowledgeable Consumer (Bagnato et al., 2014) • Formal assessment tools: Review the evidence base and the user manual • Determine whether or not assessment content is developmentally appropriate for your purposes and specifically designed, developed, and field validated and/or normed for young children, especially those with disabilities	
Slide 8	Psychometrics • Psychometrics: the science of measuring mental capacities and processes	Psychometrics is an umbrella term for all of the ways we evaluate the usefulness and effectiveness of assessment instruments
	Les COR De Control date verification of the ve	

Slide 9 Let's start with the concept of reliability. Reliability Read slide To put it simply: if the same person took the Reliability: the consistency of assessment tool same test under the same conditions of testing performance How similar will the results (scores) be? • Does the assessment consistently measure when repeated: • Over time? • When given by different people? Slide 10 A good way to think about it is if you have a Reliability: A Simple Example pedometer, and it measures the same distance for a walk around the block, no matter how · Measures the same distance each time you walk often you take that walk – it is always the once around your high school track same. If someone else uses it to take that same • Measures the same if someone else uses it walk, the results are the same – the instrument · Other conditions like weather do not change the is reliable. Slide 11 These are 4 commonly considered forms of **Four Common Forms of Reliability** reliability: **Procedural reliability** refers to the extent to Procedural and scoring reliability which the assessor follows the administrative procedures required by a given assessment, • Test-Retest best accomplished by having an observer • Internal Consistency monitor how the assessment is conducted, • Inter-Rater **Scoring Reliability** is the extent to which scoring judgements and scoring calculations/ summaries are accurate. Accomplished by a second person providing feedback/agreement on what judgements were made to score any given item, and a double-checking of calculations and final summaries. **Test-retest reliability:** the extent to which scores of a given group of children – tested on two different occasions – are scored similarly over time (e.g., a week or so later). **Internal consistency** - Applies whenever multiple items are on the test Assumption underlying such tests: *all the items*

measure the same thing

emotional functioning

For example – all items in a social-emotional assessment tool capture elements of social-

Inter-rater reliability - Important to the extent

that judgment is required for scoring

·		
		Answers the question - how closely do independent observers agree when using this tool?
		Controls for subjectivity Can be performed at different levels of complexity.
Slide 12	Validity	Another component of an assessment's psychometric profile is validity:
	Validity: the extent to which an assessment tool performs the function for which it was intended • Does the assessment measure what it is supposed to measure?	
Slide 13	Validity: A Simple Example, Expanded • Although our pedometer shows reliability, it needs to measure the actual distance correctly • If it consistently measures our half-mile track as a quarter-mile distance, it is not a valid instrument	Although our pedometer shows reliability, it needs to correctly measure the actual distance If it consistently measures your half-mile track as a quarter-mile distance, it is not a valid instrument – although it is reliable!
Slide 14	Types of Validity Content validity Criterion validity Construct validity: convergent/discriminative Instructional validity Social validity/acceptability	These are types of validity we often consider for the assessments we use: Content validity – how well does the assessment fit with what is known about what is being measured? Relies on expert judgement Criterion validity: Determining how well a given assessment corresponds to another validated assessment that measures the same thing across populations
		Construct validity: Based on an accumulation of research results about a given concept that is being measured. Shows high convergent validity when an assessment shows a high correlation with other tests measuring the same construct across populations, and good discriminative validity when it demonstrates a low correlation with test that measure different constructs when measured across populations

Instructional validity – The extent to which an assessment tool provides useful information for planning intervention/instruction programming for young children with disabilities. This might be done by asking groups of EI/ECSE providers and teachers to rate how useful the assessment results were for the purpose of intervention planning

Social validity/acceptability: arguably one of the most important forms of validity – *Social* validity refers to the acceptability of and satisfaction with an intervention or assessment procedure, gained through soliciting the judgments of individual consumers, participants, and implementers of the procedures (e.g., parents, children, and professionals). Does the assessment items/tasks and procedures make sense to the child/family in the context of that family's experiences culture? Is the assessment in the primary language of the child taking the test? Does the assessment use objects and words that the child is familiar with across his or her own everyday routines?

Bagnato SJ, Goins DD, Pretti-Frontczak K, Neisworth JT. Authentic Assessment as "Best Practice" for Early Childhood Intervention: National Consumer Social Validity Research. Topics in Early Childhood Special Education. 2014;34(2):116-127. doi:10.1177/0271121414523652

Were the right questions asked?
Was it inclusive?
Does it correlate with other validated tools?

Slide 15 Support discussion around the fact that **Discussion** stacking 3 small wooden blocks is not an interesting activity for most toddlers, for whom Common item in comprehensive assessments for this item is typically geared to, especially when young children: stacks three blocks a stranger is asking the child to do it. · What kinds of validity may be relevant to consider Many children will do it but many will not see it when a child does or does not perform this task? as an interesting activity. So social validity/acceptability is in question even though the item has been proven to measure the broad concept of a specific motor skill. **Instructional validity:** Does the item "stacks three blocks" lead families and educators to meaningful instructional planning in an explicit way? Are there other ways to identify how a child is using fine motor skills to inform program planning? What other behaviors might you want to observe if a child isn't interested in stacking small wooden blocks? Slide 16 Beyond evaluating the psychometrics of the **Selecting the Right Assessment Tools** assessment tools, you are considering, it is important to understand how the use of informal and formal assessments can converge to complement each other and provide a full picture of a child's developmental capacities Slide 17 In most instances, you will be using both **Formal and Informal Assessments** formal and informal forms of assessment across functions of assessment – eligibility, program planning, progress monitoring and Norm-referenced · Individualized datacollection forms Criterion/Curriculum-Based evaluation. · Individualized rating scales Rating scales/checklists or checklists with age-equivalent or standard scores · Anecdotal report/portfolio · Reliability checks with Ecological or play-based (Facilitator reads text in each of the two tools with age-equivalent or standard scores other observers to support accuracy boxes aloud).

Reliability/validity tested

Slide 18

Criteria for the Use of Formal Assessment

- Eligibility
- · Qualification for new services
- Formal documentation of progress required by educational programs (summative)
- Curriculum-based assessment measures to formally measure progress

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Formal measures are used for the purpose of determining eligibility, or to qualify a child for new services if they currently have an IFSP or IEP. These measures can often be used for program planning.

As a rule, early education programs, including inclusive and specialized education programs, require formal assessment at regular intervals to document effectiveness, an element of accountability. These are often in the form of a summative achievement tests that measure attainment of specific standards, e.g. Common Core. Alternatives exist for these tests in every state for children for whom these tests are not adequately sensitive or appropriate. These tests are not useful for program planning or progress monitoring.

Formal assessments are also built into many curriculum frameworks, such as The Head Start Early Learning Outcomes Framework: Ages Birth to Five (ELOF), High Scope - or the Creative Curriculum framework - which specifically supports special education objectives. Disability-specific programs such as the LEAP model curriculum framework, or the Early Start Denver model also include the use of validated assessments that provide ongoing formative information.

Slide 19

Criteria for the Use of Informal Assessment

- Collect individualized data on specific child goals and objectives
- Inform ongoing progress and need for modification
- Monitor fidelity of intervention approach
- Designed by teachers/providers/families
- Implemented across settings and routines



The use of informal assessment is a critical piece of progress monitoring on a daily and weekly basis.

Data collected daily/weekly across routines inform whether or not intervention or instructional strategies are impacting behavioral or educational targets. For Part C providers, families can share ideas about how best to collect ongoing data in the home. For example, using a counting clicker

or app, or keeping a simple frequency form attached to the refrigerator. This informal data should always be shared in an ongoing manner with all members of the child's team, especially families. Individualized informal and ongoing data collection ensures that intervention/instruction is having the desired impact on a child's development and functional goals, and ensures that need modifications are implemented in a timely way. Slide 20 Effective data collection that focuses on Informal Data Collection Is Critical to within reach and measurable short-term Success! goals ensures/ helps families and educators · Ensures that small but important steps toward see and appreciate the smaller steps success are measured towards success! This empowers both the · Provides valuable feedback to families and child, the family, and the early education providers/teachers providers to continue fidelity · Makes change visible implementation. Slide 21 This image describes the relationship of The Overlap formal and informal relationship by showing 2 overlapping circles. The point of overlap is where the benefit of using both forms of assessment lies. When both forms of assessment are RELIABLE, VALID, Informal UNBIASED, RELEVANT, AND INTENTIONAL as described in the blue rectangle, we know that best-practice assessment is being used. Assessment tools, whether they are formal assessments like the Battelle Developmental Inventory or an informal assessment like a parent interview or an individualized rating scale - provide feedback. Using BOTH types of assessments creates a broad picture of the child's abilities - which

		can be used to inform IFSP/IEP goals. This
		combination of several forms of
		assessment is called "convergent"
		assessment
Slide 22		
Slide 22	Using Best Practices: Authentic Assessment	(Facilitator can read the quote aloud).
		When we have determined that individual
	" the systematic recording of developmental observations over time about the naturally occurring	assessment tools are appropriate for the
	behaviors and functional competencies of young children	child we are evaluating, we must then
	in daily routines by familiar and knowledgeable	make sure that we are creating a fully
	caregivers in the child's life"	representational picture of that child and
	Preparts C. J. R. Vals JJ. (2005)	his or her environment.
	Bagnato, S. J., & Yeh-Ho, H. (2006)	ins of their environment.
	latiy Diddead Harawal Gater wee agapt as g	Market Heat there also the constitution
		We do that through the use of authentic
		assessment.
		Bagnato, S. J., & Yeh-Ho, H. (2006). High-
		stakes testing with preschool children:
		Violation of professional standards for
		evidence-based practice in early childhood
		intervention. International Journal of
		Educational Policy, 3(1), 2343, p. 29
Slide 23	Authority Assessment Follows to the	(Facilitator will read the characteristics of
	Authentic Assessment: 5 Characteristics	authentic assessment aloud)
	Ongoing Holistic Naturalistic	
	Collaborative Useful	
	E C P C	
Slide 24	ww.edstreil	
3	Ongoing	
	A	
	Assessment process continues throughout	
	program planning to document progress,	
	modify intervention plans, and monitor	
	improvement over time	
	Enty Clinity Charles I	

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Slide 25		
	Holistic	
	 Inclusive of all developmental domains 	
	 Inclusive of relevant formal academic 	
	assessments	
	 Inclusive of culture and linguistic preferences 	
	 Inclusive of child's strengths and deficits 	
	• Inclusive of medical information	
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Slide 26	Naturalistic	
	Naturanstic	
	Occurs:	
	 during normal routines and activities 	
	during play	
	• in a familiar environment	
	with familiar people	
	across settings	
	E C P C	
Slide 27	www.napez.ust	
	Collaborative	
	 Recognize family as a reliable and valid 	
	source of information	
	 Recognize role as a team member 	
	Recognize the need for accommodations and	
	modifications	
	EQPQ	
	lings (Wildows Frances Carlor www.capit.co.g	
Slide 28	Alicens to dealer	
	Always Include:	
	• Family's priorities, hopes and dreams for their child	
	Relevant information about child's strengths and needs	
	Objective information on what is working and not	
	working	
	Multiple assessment tools	
	 Consideration of the need for assistive technology 	
	EGPG	
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Slide 29	Authentic Assessment	Let's take a look at this video about authentic assessment. As you watch, notice
		how this Part C PT provider talks about
		using observation as a key part of her
		authentic assessment practice.
		-
		What might the use of authentic
		assessment look like in the context of Part
		B/619 assessment in preschool settings?
	E C P C	
	www.epis.eq	https://youtu.be/CjE3tSxhDDg
Slide 30		Facilitators: Support the notion that video
	Activity	can document the way an assessment was
		conducted as was intended to, can be used
	Watch the video on the next slide:	to corroborate clinical judgement with
	 How might the use of video contribute to the 	other providers, can provide a full and
	overall reliability, validity, and authenticity of the	layered picture of the ways children engage
	assessment process?	
		with and learn from their physical and
		social environment. Video can document
	E C P C	the 5 functions of authentic assessment.
Slide 31		The use of video can provide valuable and
	Technology: Enhancing Authentic Assessment	objective data for an authentic assessment
		process especially when using a play-based
		approach
		арргосси
	E C P C	
Slide 32	www.cgit.ug	https://journals.sagepub.com/doi/10.1177/
Slide 32	Resources and References	0271121414523652
	Bagnato, S.J; Neisworth, J.T., Pretti-Frontzak, K. (2010) LINKing Authentic	0271121414323032
	Assessment and Early Childhood Intervention: Best Measures for Best	
	Practices, 2nd Ed.	https://www.cde.state.co.us/resultsmatter
	 Bagnato SJ, Goins DD, Pretti-Frontczak K, Neisworth JT. Authentic Assessment as "Best Practice" for Early Childhood Intervention: 	<u>/rmvideoseries</u>
	National Consumer Social Validity Research. Topics in Early Childhood	
	Special Education. 2014;34(2):116-127.	
	Special Education. 2014;34(2):116-127. doi:10.1177/0271121414523652	

Slide 33	-	https://www.veipd.org/earlyintervention/2
Sinde 33	Resources and References	018/10/30/an invisible bridge/
		STO/ TO/ SO/ GIT INVISIBLE STIAGE/
	Standard 4: Assessment Processes The Early Childhood Personnel Center (ecpcta.org)	https://ecpcta.org/curriculum-
	McLean, M.E; Wolery, M., Bailey, D.B. (2004).	module/standard-4-assessment-processes/
	Assessing Infants and Preschoolers with Special	
	Needs.	https://www.pearson.com/us/higher-
		education/program/Mc-Lean-Assessing-
	E C P C	Infants-and-Preschoolers-with-Special-
	www.dzcrel	Needs-3rd-Edition/PGM57671.html
		Bailey, D. B., & Nabors, L. A. (1996). Tests
		and test development. In M. McLean, D.
		B. Bailey, & M. Wolery (Eds.), Assessing
		infants and preschoolers with special
		needs (pp. 23-45). Englewood Cliffs, NJ: Merrill.
Slide 34		ivierriii.
Slide 34	Resources and References	
	Linder, T. (2000). Transdisciplinary play-based assessment law K. Cittle Weiger, A. Sandgrund, S. C. assessment law K. Cittle Weiger, A. Sandgrund, S. C. assessment law K. Cittle Weiger, A. Sandgrund, S. C.	
	assessment. In: K. Gitlin-Weiner, A. Sandgrund, & C. Schaefer (Eds.), Play diagnosis and assessment (p.	
	139–166). John Wiley & Sons, Inc.	
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