

Evidence Based Practice Training:

Task Analysis (TA)

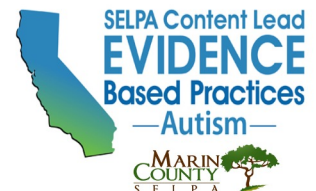
Adapted from Sam, A., & AFIRM Team. (2015). *Task Analysis*. Chapel Hill, NC: National Professional Development Center on Autism Spectrum Disorder, FPG Child Development Center, University of North Carolina. Retrieved from <https://afirm.fpg.unc.edu/task-analysis>

What is CAPTAIN

The California Autism Professional Training And Information Network (CAPTAIN) is an interagency network developed to support the understanding and use of evidence based practices (EBPs) for individuals with Autism across the state of California.



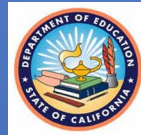
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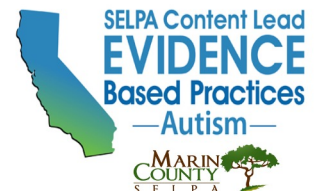
What is CAPTAIN

Marin County SELPA in partnership with CAPTAIN, are members of the Statewide System of Support as the Special Education Content Lead for Autism

This project is funded by the California Department of Education and the California Collaborative for Educational Excellence.



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Levels of Professional Development to Reach Implementation



This is a Workshop/Training and is designed to increase your KNOWLEDGE of the topic. Implementation supports to assist you with use of this EBP will be outlined following the TRAINING/WORKSHOP

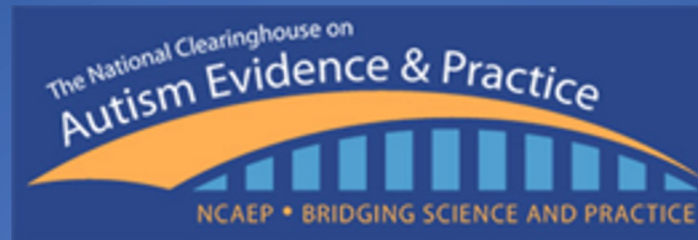
Before We Begin...

Please complete the **Pre Training Survey**
sent to your email

Learning Objectives:

- Describe what EBPs are
- Define and describe tasks analysis and the skills and learners it can be used for
- Demonstrate the development of a Task Analysis in preparation for skills teaching

What are Evidence Based Practices?



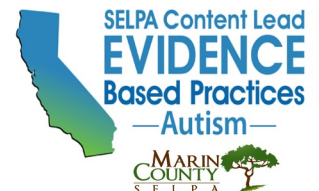
NCAEP definition of an EBP:

“Focused intervention practices that have evidence of efficacy in promoting positive outcomes for learners with ASD.”

Steinbrenner, J. R., Hume, K., Odom, S. L., Morin, K. L., Nowell, S. W., Tomaszewski, B., Szendrey, S., McIntyre, N. S., Yücesoy-Özkan, S., & Savage, M. N. (2020). Evidence-based practices for children, youth, and young adults with Autism. The University of North Carolina at Chapel Hill, Frank Porter Graham Child Development Institute, National Clearinghouse on Autism Evidence and Practice Review Team.



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Evidence Based Practice Matrix (28 EBPs)

Table 3.7 Matrix of evidence-based practices, outcomes, and age categories


Evidence-Based Practices See Table 3.1 to link abbreviations to EBPs	Academic/Pre-academic			Adaptive/Self-help			Challenging/Interfering behavior			Cognitive			Communication			Joint attention			Mental health			Motor			Play			School readiness			Self-determination			Social			Vocational		
	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years	0-5 years	6-14 years	15-22 years			
ABI																																							
AAC																																							
BMI																																							
CBIS																																							
DR																																							
DI																																							
DTT																																							
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PBII																																							
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TAII																																							
TD																																							
VM																																							
VS																																							

Selecting EBPs

Before beginning a new practice with a learner, it is important to follow four planning steps


1. Identify the behavior
2. Collect baseline data on the behavior
3. Establish an observable and measurable goal
4. Choose an EBP
 - Consider the child and family characteristics
 - Consider the teacher and team characteristics
 - Consider other available resources


Selecting an EBP Checklist

 Autism Focused Intervention Resources & Modules

 Selecting an EBP Checklist
 For more information, please visit: <https://afirm.fg.uic.edu/>

---Selecting an EBP Checklist---




Learner's Name: _____ **Date/Time:** _____
Observer(s): _____
Target Goal/Behavior/Skill (short): _____
Directions: Complete this checklist to select an appropriate practice to use with the learner with ASD.


IDENTIFY TARGET GOAL/BEHAVIOR/SKILL:

COLLECT BASELINE DATA (OR USE SELECTING AN EBP DATA COLLECTION SHEET):

Date/Time	Frequency/Duration	Total

DEFINE AN OBSERVABLE AND MEASURABLE IEP GOAL:

Selecting an EBP
 AFIRM Team, 2020-8
 Page 1 of 3

 Autism Focused Intervention Resources & Modules

 Selecting an EBP Checklist
 For more information, please visit: <https://afirm.fg.uic.edu/>

CHECK ANNUAL GOAL FOR:

1. Context (When/Antecedent)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
2. Target goal/behavior/skill (What/Behavior the learner is to perform)	<input type="checkbox"/> Yes	<input type="checkbox"/> No
3. Mastery (How/Criterion for learner progress/mastery)	<input type="checkbox"/> Yes	<input type="checkbox"/> No

IDENTIFY CHARACTERISTICS, CLUES, AND RESOURCES:

Child and Family Characteristics

Student strengths:	Student challenges:
Has worked before (home/school):	Has not worked before (home/school):

Teacher/Team Characteristics

Knowledge level:	Successfully used EBPs:
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Clues found in the IEP Goal

Goal domain:	Potential EBPs (Refer to the Domain Matrix):
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Other Resources

Current student supports:	Available equipment:
Team members:	Additional learning experiences:

Selecting an EBP
 AFIRM Team, 2020-8
 Page 2 of 3

 Autism Focused Intervention Resources & Modules

 Selecting an EBP Checklist
 For more information, please visit: <https://afirm.fg.uic.edu/>

SELECT AN EBP:

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IF APPLICABLE, IDENTIFY ADDITIONAL EBPs TO BE USED WITH THE SELECTED EBP:

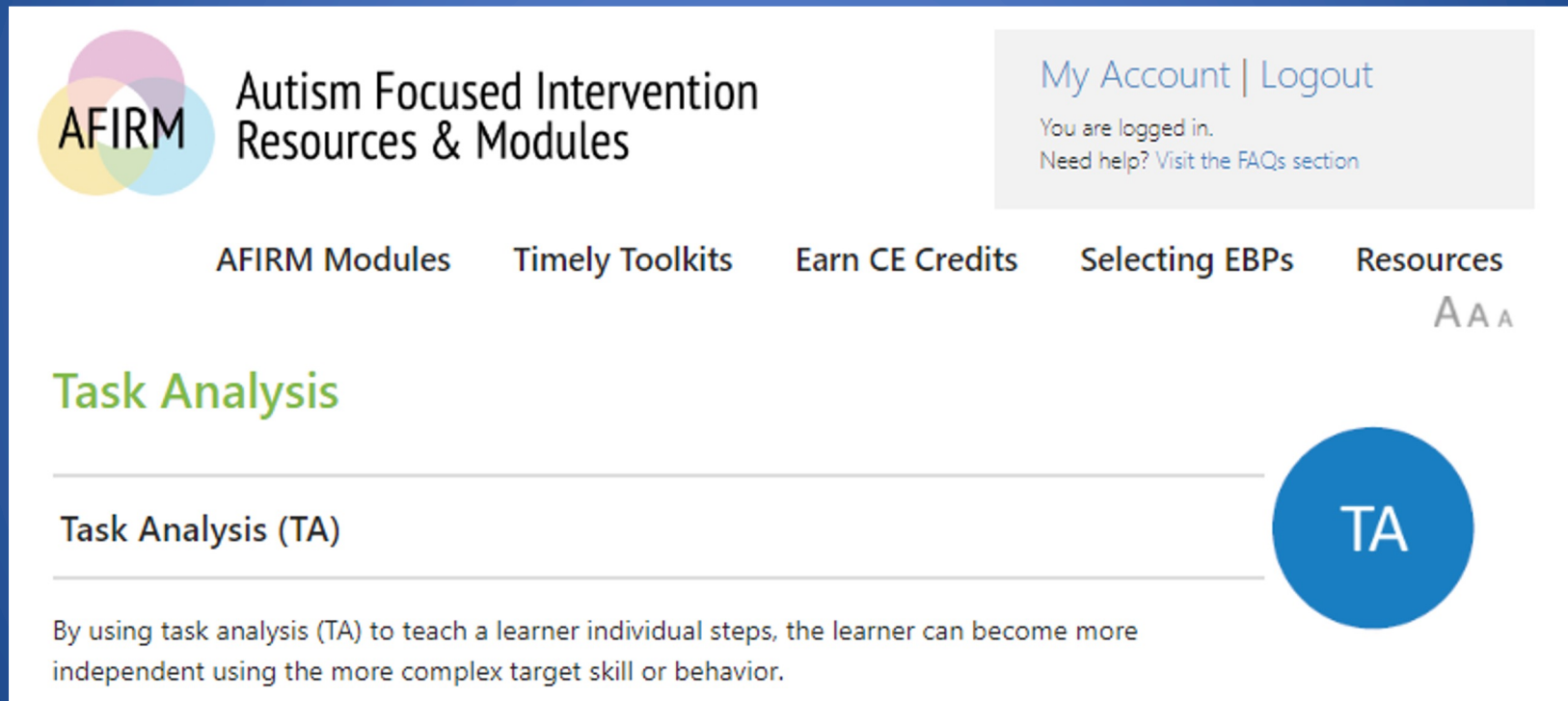
<input type="checkbox"/> Reinforcement (R+)	<input type="checkbox"/> Prompting (PP)	<input type="checkbox"/> Modeling (MD)
<input type="checkbox"/> Task Analysis (TA)	<input type="checkbox"/> Time Delay (TD)	<input type="checkbox"/> Visual Supports (VS)
<input type="checkbox"/> Functional Behavior Assessment (FBA)	<input type="checkbox"/> _____	<input type="checkbox"/> _____

ADDITIONAL NOTES:

High Quality Training:

Autism Focused Intervention Resources and Modules (AFIRM)

Designed to help you learn the step-by-step process of planning for, using, and monitoring EBPs with learners with Autism from birth to 22 years of age



The screenshot shows the AFIRM website interface. At the top left is the AFIRM logo, which consists of three overlapping circles in pink, yellow, and blue, with the text 'AFIRM' overlaid. To the right of the logo is the text 'Autism Focused Intervention Resources & Modules'. In the top right corner, there is a grey box containing the text 'My Account | Logout', 'You are logged in.', and 'Need help? Visit the FAQs section'. Below this, there is a navigation menu with the following items: 'AFIRM Modules', 'Timely Toolkits', 'Earn CE Credits', 'Selecting EBPs', and 'Resources'. To the right of the 'Resources' item is a font size adjustment icon 'A A A'. The main content area features the title 'Task Analysis' in green text. Below this title is a horizontal line, followed by the text 'Task Analysis (TA)'. To the right of this text is a large blue circle containing the white text 'TA'. Below the 'Task Analysis (TA)' text is another horizontal line, followed by a paragraph: 'By using task analysis (TA) to teach a learner individual steps, the learner can become more independent using the more complex target skill or behavior.'

Task Analysis (TA)

- Breaking down a complex skill into smaller components in order to aide in the teaching of the skill
- Learners are taught to perform steps of the sequence using additional evidence based practices such a prompting and reinforcement

Example of a Task Analysis

Brushing Your Teeth	
Step	Component Skill
1	Pick toothpaste up.
2	Twist off cap.
3	Apply toothpaste to toothbrush.
4	Turn on cold water.
5	Wet toothbrush.
6	Brush teeth.
7	Spit in sink.
8	Wash mouth out with cup of water.
9	Spit out water.
10	Put cap on toothpaste.

Outcome Areas		Age Ranges					
		0-2 Toddlers	3-5 Preschoolers	6-11 Elementary School	12-14 Middle School	15-18 High School	19-22 Young Adults
	Communication		✓	✓	✓		
	Social			✓			
	Joint attention		✓		✓		
	Play				✓		
	Cognitive						
	School readiness						
	Academic/ Pre-academic			✓	✓		
	Adaptive/ self-help		✓	✓			
	Challenging/ Interfering behavior						
	Vocational				✓	✓	✓
	Motor			✓			
	Mental health						
	Self- determination						

(Steinbrenner, 2020)

Case Examples: Task Analysis

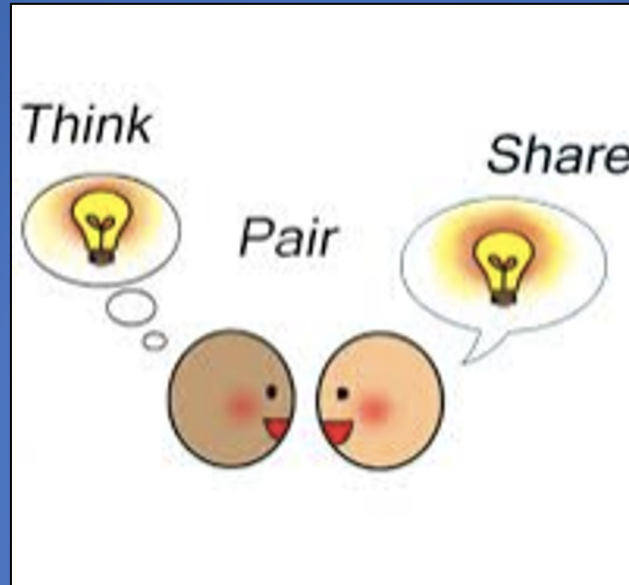


AFIRM

Autism Focused Intervention
Resources and Modules

<https://afirm.fpg.unc.edu/task-analysis/lesson-1-basics-ta/how-ta-being-used>

Think - Pair - Share



Describe a student and a skill that you think would be a good fit for using Task Analysis

Planning for Use of Task Analysis

Step 1: Planning

- 1.1 Determine if learner has prerequisite skills needed to learn target skill/behavior
- 1.2 Identify the components of the target skill/behavior
- 1.3 Check if task is completely analyzed
- 1.4 Select appropriate task analysis procedure
- 1.5 Select appropriate method for teaching steps of task analysis
- 1.6 Develop presentation materials of the steps

Identifying Components of the Skill

- Observe others that have mastered the skill or behavior
- Record each step needed to complete the behavior or skill
- Each step should be discrete, manageable, based on the needs of the learner

Individualized for the Learner



AFIRM


Autism Focused Intervention
Resources and Modules

<https://afirm.fpg.unc.edu/resources/plan-ta-check-ta-steps>



Practice writing a task analysis by breaking down the sequence of skills required for your classroom entry routine

Task Analysis



---Progress Monitoring Form---

Learner's Name: _____ Date/Time: _____

Observer(s): _____

Target Behavior: _____

Task Analysis Procedure: _____

Additional EBPs: _____

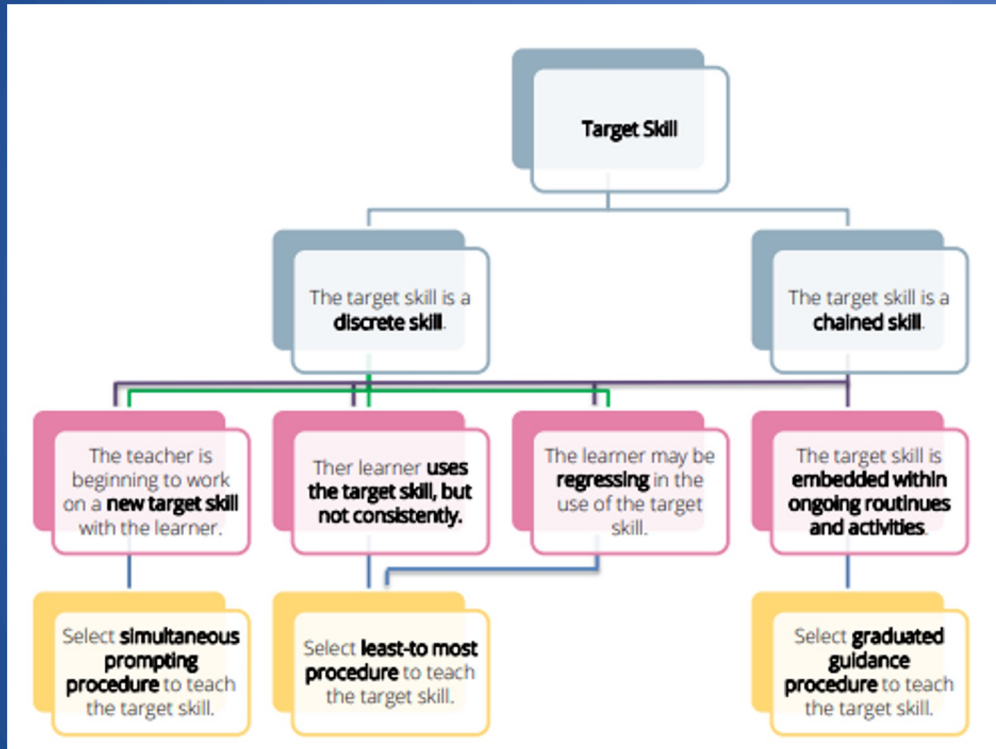
Steps	Dates				
	__/__/__	__/__/__	__/__/__	__/__/__	__/__/__

I=Independent; IS=Independent with support (visual support, video modeling, social narrative); VP=Verbal Prompt; VSP = Visual Support Prompt; MP = Model Prompt; PP = Physical Prompt; GP= Gestural Prompt; 0=error

Anecdotal Notes:

Date	Observer Initials	Target Skill/Behavior, Comments, and Plans for Next Steps

Teach the Steps of the Task Analysis: Use Prompting and Reinforcement



Support the Learning with Other EBPs

 Washing hands	
	Water on
	Hands wet
	Rub hands with soap
	Rinse
	Water off
	Dry

Visual Supports

Video Modeling



Example of Developing Materials



AFIRM Autism Focused Intervention
Resources and Modules

- <https://hml.fpg.unc.edu/player?autostart=n&fullscreen=y&width=835&height=505&videoId=2755&captions=y&chapterId>

Implementation of a Task Analysis

- Backward Chaining
- Forward Chaining
- Total Task Presentation

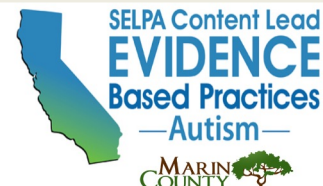
PROCEDURE	DESCRIPTION	EXAMPLE
FORWARD CHAINING	The first step in a chain is taught first. As each step is mastered, the next step is taught.	When teaching a learner to wash hands, the step of turning on the water would be taught and reinforced before teaching a learner to rub hands together with soap.
BACKWARD CHAINING	The final step in a chain is taught first. As each step is mastered, the previous step is taught.	When teaching a learner to wash hands, the final step of drying hands with a paper towel would be reinforced before teaching the learner to turn off the water.
TOTAL TASK PRESENTATION	Learner performs entire chain with reinforcement at each step and the most effective reinforcer at completion of task.	When teaching a learner to wash hands, the learner would be prompted and reinforced at each step with the most effective reinforcer provided at the final step.

Monitoring

- Data collection
- Make data-based decisions for next steps



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Criteria to back up modify: Requiring full physical prompts on a step for 5 days

Instructions: In a calm and encouraging manner, give the instruction to “take your pants off”. Support the student through the chain of behaviors involved in the taking their pants off program. Provide Least to Most Prompting for each step and record the prompt required to complete the step.

+	Correct/unprompted	V	Verbal
GM	Gesture/model	P	Physically Prompted (shaped)

<i>Step</i>	<i>Component Skill</i>	<u>Date</u>	<u>Date</u>	<u>Date</u>	<u>Date</u>	<u>Date</u>	<u>Date</u>	<u>Date</u>
1	Grab waist of pants	P						
2	Pull pants down	P						
3	Sit down	P						
4	Cross midline and grab opposite pant leg	P						
5	Hold ankle of pants and pull leg out	P						
6	Cross Midline and grab ankle of other pant leg	G						
7	Hold ankle of pants and pull leg out	+						

Monitoring

Let's
Practice!

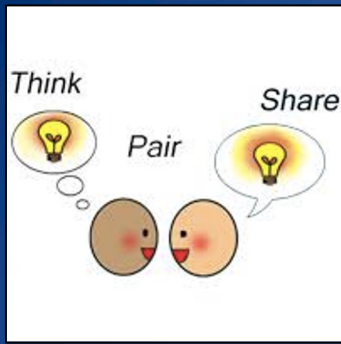
Question 1 of 3

Which step seems to be an issue for Jordan?

- Go to media center
- Say "hi" to friends
- Play games
- Talk with friends
- Say "goodbye" to friends

Steps	Date				
	9-2	9-3	9-4	9-5	9-6
Go to media center	IS	IS	IS	I	I
Say "hi" to friends	P	P	P	P	IS
Play games	0	0	P	P	P
Talk with friends	0	0	0	0	0
Say "goodbye" to friends	P	P	IS	IS	I

I=Independent; IS=Independent with support (visual support, video modeling, social narrative);
P=Prompt (verbal, physical, model, etc.); 0=error



My Takeaways

1. What are 4 things you remember from today's training?
1. What are 2 things you see yourself doing?
1. What is the 1 thing you can implement tomorrow?

Next Steps

Task Analysis (TA)
---Implementation Checklist---

Before you start:

Have you...

- Identified the behavior?
- Collected baseline data through direct observation?
- Established a goal or outcome that clearly states **when** the behavior will occur, **what** the target skill is, and **how** the team will know when the skill is mastered.

If the answer to any of these is "no", refer to the "Selecting EBPs" section on the website.

	Observation	1	2	3	4
Date					
Observer's Initials					
Step 1: Planning					
1.1 Determine if learner has prerequisite skills needed to learn target skill/behavior					
1.2 Identify the components of the target skill/behavior					
1.3 Check if task is completely analyzed					
1.4 Select appropriate task analysis procedure					
1.5 Select appropriate method for teaching steps of task analysis					
1.6 Develop presentation materials of the steps					
Step 2: Using					
<i>Backward Chaining:</i>					
<input type="checkbox"/> Provide assistance with initial steps					
<input type="checkbox"/> Prompt learner to perform final step					
<input type="checkbox"/> Reinforce learner for completing final step					
<input type="checkbox"/> When final step mastered, previous step is added one at a time					
<i>Forward Chaining:</i>					
<input type="checkbox"/> Prompt learner to perform first identified step					
<input type="checkbox"/> Reinforce learner for completing step					
<input type="checkbox"/> Guide learner through remaining steps					
<input type="checkbox"/> When first step is mastered, the next step is added one at a time					
<i>Total Task Presentation:</i>					
<input type="checkbox"/> Prompt learner to perform first identified step					
<input type="checkbox"/> Reinforce learner for completing step					
<input type="checkbox"/> Apply most effective reinforcer at completion of task					
<input type="checkbox"/> Fade reinforcers as quickly as possible					
Step 3: Monitoring					
3.1 Collect data on target behaviors					
3.2 Determine next steps based on learner progress					

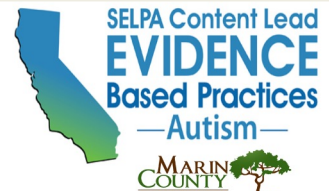
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After the Training...

Please complete the **Post Training Survey**
that will be sent to your email



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captain@marinschools.org