New Child Passenger Safety Technician Certification Training
Revised Curriculum Update

Originally presented at Lifesavers 2019, edited.
Questions, Questions, and more Questions...

When will the revised curriculum be released?

How long will the course be?

What are the sources of information?

How will instructors obtain the new materials?

What do the new materials look like?

What are the major module changes?

Are there changes to the quizzes and assessments?

How can I instruct a pilot course?
Materials are expected to be shipped

Fall 2019

A timeline and transition period will be announced when available.
Adult Learning Theory
Adult Learning Theory

Adult learners have unique and special needs when it comes to learning new content.
Adult Learners

• Adults are not passive receptacles for the teacher’s expertise.
• Adults need to understand why certain concepts are being taught and how it impacts them directly.
• Adults learn by doing – effective instruction is task-oriented.
• Adult learners are problem-solvers and learn best when the topic can be applied immediately.
What will you see?

• Language has been simplified and standardized to reduce risk of confusion.
• Concepts have been condensed and combined when possible.
• Flow diagrams have been used to help students visualize content in a more step-wise fashion.
• Pictures and diagrams will be more clear.
• Many opportunities to apply information have been added.
Tips to Achieve Adult Learning

• Respect your students.
• Use humor.
• Facilitate exploration.
• Use “chunking” – breaking big ideas into smaller pieces.
• Use their lives as examples.
• Let learning occur through failure.
• Don’t trick; you will lost trust.
National CPS Technician Certification Training
Instructor Guide, Technician Guide and PowerPoint Slides
Does this look familiar?
We listened to you!
Thank you for your feedback and input.
Purpose and Function of Air Bags

DISCUSS
- An air bag is a vehicle safety device made up of a flexible fabric envelope designed to rapidly deploy/inflate when the vehicle sensors determine there has been a crash.
- Air bags are for adults.
  - The crash protection provided by air bags is tested on the 5th percentile adult female (137 pounds) and 50th percentile male (167 pounds).
- Important considerations related to air bags include:
  - Read the vehicle owner’s manual carefully. It has information about air bags and instructions for their use.
  - Assume all air bags are fully active unless the vehicle owner’s manual states differently.

DO
Point out the Tech Tip in the Technician Guide.

DISCUSS
- Air bags do not deploy in every crash.
  - For example, frontal air bags usually do not deploy in rear impact collisions.

Air Bags

MODULE OBJECTIVES
- DESCRIBE the purpose and function of air bags.
- LOCATE air bag information in vehicle owner’s manuals and vehicles.
- IDENTIFY features, warnings, and markings related to air bags.
- EXPLAIN best practices about air bags to caregivers.

There are many safety features built into the vehicle that protect occupants in a crash. For example, vehicles have laminated windshields, dashboard padding, door trim padding, and air bags. Air bags pose particular concerns for the safe travel of children.

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Air bags and seat belts work together to protect the occupants. This is why air bags are called supplemental restraint systems. Using the seat belt with the air bag allows the crash forces to be spread over a larger area of body.
Purpose and Function of Air Bags

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DISCUSS

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3. Advanced Air Bags

Most newer vehicles are equipped with advanced air bag systems. These systems use a complex system of sensors and electronic components. Certain air bag systems can turn off.

Caregivers need to understand the specific systems and indicators, and what they mean, in their vehicle. Remind them to check their vehicle owner’s manual.

BEST PRACTICE RECOMMENDATIONS:

- Even when the “air bag off” indicator is lit, to err on the side of caution, caregivers should always assume the air bag is on.
- NEVER place a rear-facing car seat in a seating position with an active or advanced frontal air bag.
- Check the manual. Some car seat manufacturers have a warning statement against placing a car seat or booster seat in front of an air bag.
- Occupants should avoid leaning against an air bag’s opening or putting other objects in front of an air bag’s compartment.

TECH TIP

Remind caregivers to use the back seat for children under the age of 13, even if there is an automatic on/off system for a passenger air bag.

Practice Activity

LOCATEFRONTAL AND SIDE AIR BAG MARKINGS AND WARNINGS

1. Work in small groups.
2. Using the two vehicle owner’s manuals provided, document the vehicle’s air bag information.
3. In addition to information you find in the vehicle owner’s manuals, locate and document missing or additional information from inside the vehicle.

<table>
<thead>
<tr>
<th>Question</th>
<th>Vehicle A</th>
<th>Vehicle B</th>
</tr>
</thead>
<tbody>
<tr>
<td>What is the vehicle make, model and year?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Where are the labels for frontal air bags? What do they say?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>What pages in the vehicle owner’s manual discuss the frontal air bags?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Which type of passenger air bag system does the vehicle have?</td>
<td>Always on</td>
<td>Always on</td>
</tr>
<tr>
<td>Manually switched on/off</td>
<td>Automatically switched on/off</td>
<td>Automatically switched on/off</td>
</tr>
<tr>
<td>Where are the labels for side air bags? What do they say?</td>
<td></td>
<td></td>
</tr>
<tr>
<td>What pages in the vehicle owner’s manual discuss the side air bags?</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

www.cpsboard.org rear-facing • forward-facing • booster seat • seat belts
Power Point Slides

DRAFT

Side Air Bag Markings and Warnings

- On the door frame
- On the end of the dashboard
- On the side of the seat
- Near the edge of the roof
- On the side of the door

Air Bag Markings and Warnings

Each vehicle manufacturer places labels in different positions and may call their air bag system something different.

**EXAMPLES of acronyms for frontal air bags**
- SRS: Supplemental Restraint System
- SIR: Supplemental Inflatable Restraint

**EXAMPLES of acronyms for side/curtain air bags**
- SABC: Side Air Bag Inflatable Curtain
- SAB: Side Air Bag

Review and Explain Air Bag Types

1. **Review** types of air bags and best practice recommendations with a partner.
2. **Practice explaining** the different types of air bags to one another.

www.cpsboard.org

rear-facing • forward-facing • booster seat • seat belts
Side Air Bag Markings and Warnings

Warning labels for air bags that deploy in side crashes may be found almost anywhere in the vehicle, including—

- On the door frame
- On the end of the dashboard
- On the side of the seat
- Near the edge of the roof
- On the side of the door

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Curriculum Revisions
Overall Curriculum Revisions

• **Title Change:**
  National Child Passenger Safety Technician Certification Training

• **Audience:** Students

• **Emphasis:**
  Learn-Practice-Explain
Overall Curriculum Revisions

- **Training Length**
  - No major changes
  - 3, 3.5 & 4 day options

- **Additions to the Technician Guide:**
  - CPST Code of Conduct
  - Glossary
Curriculum Revisions: Introduction

Module 1

- Bubble Wrap video added
- Statistics from Modules 1 & 3 condensed/simplified into Module 1
- Resources for statistics moved from Module 3
Curriculum Revisions: CPS Technician Role

Module 2

• Icebreaker activity added
  Students will:
  – Install a randomly selected car seat.
  – Record activity with cell phone.
  – Review video at end of the training.
  Estimated Time: 5 minutes
  Goal: Engage students.

• Good-Better-Best introduction

• Reference to CPST Code of Conduct added
Curriculum Revisions: Crash Dynamics

Module 3

- "Ride Down" explained
  - Video added
  - “Catching an egg" analogy added

- Statistics moved to Module 1
- Resources for statistics moved to Module 1
Curriculum Revisions: Seat Belt Systems

Module 4

- Flowchart for lockability check added
- Retractors introduced before latch plates
- Locking latch plate video added
- Terminology updated to dynamic latch plate
- Inflatable seat belts moved from Module 5
- Belt shortening clip instruction removed
- ELR/ALR videos removed
Curriculum Revisions: Air Bags

Module 5

- Knee air bags added
- Seat cushion air bags added
- Reminder to sign up for vehicle recall notices added
- Inflatable seat belts moved to Module 4
Curriculum Revisions: LATCH

Module 6

- Reorganized into:
  - LATCH System – Vehicles
  - LATCH System – Car Seats

- “Tether Routing and Head Restraints” added
- “Lower Anchors for Center Seating Positions” added
- “Lower Anchor Weight Limits” added
- “Tether Anchor Weight Limits” added
- “Tether Anchors and Pickup Trucks” section added
Curriculum Revisions:  
Introduction to Car Seats & Booster Seats

Module 7

- Updated reference guide (parts and functions) with line art drawings
- All-in-one car seats added
- Terminology updated to secondhand car seats
- Terminology updated to non-approved products
- Special transportation needs information condensed
Curriculum Revisions: Children in Rear-Facing Car Seats

Module 8

- All-in-one car seat added as type of rear-facing seat
- “Other Considerations: Carry Handles” added
- Reference to rear-facing being 5X safer removed
- Video with Dr. Bull updated to remove reference to 5X safer
- Special transportation needs information removed
Curriculum Revisions: Children in Forward-Facing Car Seats

Module 9

- All-in-one car seat added as type of forward-facing seat
- Reference to large medical seats removed
- “Vests and Harnesses” included
Curriculum Revisions: Children in Booster Seats and Seat Belts

Module 10

- Expanded time allotment
- All-in-one car seat added as type of booster
- Integrated (built-in) boosters included
- Steps for booster seat use aligned with Modules 8 & 9
- “Seat Belt Positioner” included
Curriculum Revisions: Other Vehicles

Module 11

- Pickup truck information removed and incorporated in other modules
- “Emergency Transportation” reorganized
  - Ambulances
  - Law Enforcement Vehicles
- CPS enrichment trainings promoted
  - Ambulances
  - School Buses
Curriculum Revisions: Interacting with Caregivers

Module 12

- “Effective Communication Techniques” added:
  - Keep it Simple
  - Keep it Short
  - Keep it Positive
  - Keep it Real

- “An Example of Opportunity for Positive Education: Social Media” added

- Caution about using fear-based messaging added
Curriculum Revisions: Using and Maintaining Your New Skills

Module 13

- Focus of module updated to engage new Technicians in CPS activities post-training
- Action Plan activity added
- Emphasis on building skills added
- How to conduct a checkup event information minimized
Quizzes & Skills Evaluations
Curriculum Revisions:

Written Quizzes

- All questions have been reviewed and updated as needed.
- Open book
- 50 questions (42/50 to pass)
- Updated Testing Protocols

1, 2, & 3
Curriculum Revisions:

Skills Evaluations

• Terminology updated to Skills Evaluations
• Updated Testing Protocols

1, 2, 3, & 4
Curriculum Revisions: Vehicle Systems

Skills Evaluation

- No major changes
Curriculum Revisions: Select and Install Car Seats & Booster Seats

Skills Evaluation

- Use of dolls, dummies, or stuffed animals to represent children is **required** for “Inside: Selection and Harnessing” portion.
Curriculum Revisions: Putting It All Together

Skills Evaluation

- Classroom-based
- Full color photos
  - Perforated pages in Technician Guide
  - Standardized format
- Questions provided separately
- 34 questions (31/34 to pass)
- Estimated Time: 30-45 minutes
Skills Evaluation #3
Putting It All Together

SAMPLE QUESTION
(not actual testing scenario)

Seat belt routed correctly?
☐ YES
☐ NO
Skills Evaluation #3
Putting It All Together

SAMPLE QUESTIONS
(not actual testing scenario)

Lap belt positioned correctly on child?
☑ YES
☑ NO

Shoulder belt positioned correctly on child?
☑ YES
☑ NO
Our model Charlotte was MUCH happier with the belt used correctly!
Curriculum Revisions: Checkup Event

Skills Evaluation

• Newly renamed
• Event guidelines remain the same
  – Minimum of 2 hours (excluding set-up and breakdown)
  – Open to the public or appointment-based
    • If by appointment, allow 45 minutes per seat check.
  – Strongly encouraged to have someone outside of instructor team arrange, promote and manage the checkup event
Curriculum Revisions: Checkup Event

Skills Evaluation

- Teams of \( \leq 3 \) students
  - Each student will be the lead Technician (primary educator) on at least seat check during the event.
  - Other team members will assist as needed, e.g. scribing.

- Instructor team member will supervise each team of students.
  - Complete an evaluation form for each student.
Curriculum Revisions: Checkup Event

Skills Evaluation

- Students must successfully:
  - Engage the caregiver in the education process, utilizing Learn-Practice-Explain.
  - Encourage best practice but accept “good” or “better”.
  - Demonstrate knowledge of CPS state laws and how they relate to good, better, best.
  - Refer to car seat labels, instruction manuals and Technician Guide as needed.
  - Correct misuse errors.
  - Demonstrate active listening skills.
Pilot Courses
Pilot Courses

The NCPSB will contact lead instructors to use the revised curriculum as a pilot course.

Deliberations for potential courses will be based on the following criteria:

• Course must be registered on cert.safekids.org.
• Instructor team has varying levels of experience.
• Course length is four days.
• Students have varied backgrounds.
• Current or past NCPSB members are not included on the instructor team.

Requests to host a pilot course will not be considered.
Information and Materials
Sources of information and materials:

- Your email and mailing address in your CPS Online Profile (cert.safekids.org) will be used for all communications.
  - Emails will be from no-reply@cpsboard.org. Be sure this is an approved email so it won’t be tagged as spam!
  - Contact information for questions will be contained in the body of the email.
  - Curriculum materials will be mailed to your address on record.
    - *Must be a street address. NO PO Boxes.*
How are instructors going to obtain the new materials?

Is your CPS online profile (cert.safekids.org) information up to date?

It is important that your email and mailing address are correct!

An email will notify you when the color copy spiral bound Instructor Guide will be mailed.

Downloads will be available on CPSBoard.org.

Detailed instructions will be provided via email.
Additional Sources of Information:

- Webinars
- [www.CPSBoard.org](http://www.CPSBoard.org)
- National Child Passenger Safety Board Facebook page
- *CPS Express*
- CPS Conferences

- *Everyone is excited for the new curriculum. Please hold your questions and inquiries, everyone will receive updates at the same time. The NCPSB is anxious to share the new curriculum, but procedure must be followed.*
Thank you!

The National Child Passenger Safety Board (a program managed by the National Safety Council), NHTSA and Safe Kids Worldwide have collaboratively and exhaustively worked to ensure the curriculum revision is thoughtful and meets the needs of future CPS Technicians.

Your input, patience and support is a valued part of the process.