Playground Inspection & Maintenance: Preserve, Promote, Protect

Presented by:



The session is scheduled to begin at 2:00 p.m. Eastern Time. Audio and visuals are provided through the online webinar system. This webinar includes real-time captioning.



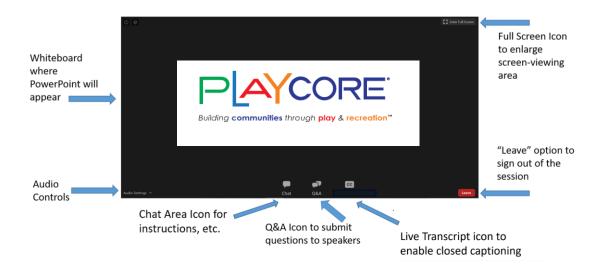
Lloyd Reese Vice President Technical Product Management *PlayCore*



Anthony Iracki Professional Development Manager *PlayCore* (Moderator)



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PLAYCORE

OUR MISSION & VALUES

We are a purpose-driven company that develops leading research and a complete portfolio of innovative products, programs, and services to build healthy communities through play, recreation, and open spaces.

PLAY & RECREATION	We believe that various forms of play, recreation, and physical activity are essential throughout life as they provide a healthy life balance and greatly enrich people of all ages and abilities.
LEADERSHIP	We believe in profitably growing the company through innovation and by taking informed, entrepreneurial risks that advance play, recreation, and physical activity.
TEAMWORK	We believe our employees are our most valuable assets. We strive to instill a sense of toarnwork and pride by providing a safe and productive work environment in which employees are treated with fairness and respect.
RESPONSIBILITY	We believe in demonstrating leadership through research and a beyond-compliant attitude in every aspect of our business including safety, inclusion, and sound environmental practices.
PARTNERSHIPS	We believe in mutually beneficial relationships with our customers, representatives, suppliers, and industry affiliates.
COMMUNITY	We believe in enhancing the quality of life in the communities where we live, work, and play.





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CORE | DATA SERVICE LAB

We are passionate about raising national awareness and helping local communities share the positive impact they're making on health and wellness and measuring their impact on the community's vitality.

Demonstrate Community Impact: playcore.com/nds



Telling Your Impact Story: Community Vitality



What are your community's priorities?





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Learning Objectives



- 1. Summarize safety considerations when conducting a visual inspection of playground equipment, surfacing, and the general area.
- 2. Identify at least 5 potential hazards that can occur during playground inspections and effective corrective actions.
- 3. Outline the key aspects of a successful, sustainable maintenance program and the significance of comprehensive documentation for accountability and follow-up.
- Identify two resources for developing inspection protocols based on industry standards and best practices.

Why is Inspection and Maintenance Important?



Did You Know? It has been estimated that at least 33% of playground accidents could be avoided with a planned maintenance program.

(National Recreation and Park Association's CPSI Course)

- Protect your investment
- Manage risk
- Improve children's play experiences
- Promote community values
- Control expenses

ASTM F1487

13. Maintenance

13.1 *Public Use Playground Equipment*—The designer or manufacturer of each play structure shall provide to the owner/operator clear and concise inspection, maintenance, and repair instructions, including, but not limited to, what, when, and how to inspect, maintain, and repair.

13.1.1 The owner/operator shall maintain and repair each play structure within the playground in accordance with designer/manufacturer's installation and maintenance instructions and in compliance with Specification F1487, and where applicable, addresses the intent of the DOJ 2010 Standard for Accessible Design.

13.1.2 The owner/operator shall make periodic inspections of each play structure and remove extraneous materials that could cause injury, infection, or disease.



ASTM F1487

13. Maintenance

13.2 Impact Attenuating Surfacing:

13.2.1 The owner/operator shall maintain and repair the impact attenuating surfacing within the use zone of each play structure in accordance with designer/manufacturer's installation and maintenance instructions and in compliance with Specifications F1487 and F1292 appropriate for the fall height of each play structure and, where applicable, maintains the surfacing to address the intent of the DOJ 2010 Standard for Accessible Design.

13.2.2 The owner/operator shall make periodic inspections of the impact attenuating surfacing within the use zone of each play structure and remove extraneous materials that could cause injury, infection, or disease.



ASTM F1487

13. Maintenance

13.3 *Records*—The owner/operator shall establish and maintain detailed installation, assembly, inspection, maintenance, and repair records for each public-use playground equipment area.





Maintenance Inspections



- Inspection Frequency
 - Low frequency (quarterly/semiannually)
 - High frequency (daily/weekly)
- Inspection Process
 - Audit by Certified Playground Safety Inspector (CPSI)
 - File regular inspection forms for safekeeping



What Variables Affect Inspection Frequency?

Use Factors:

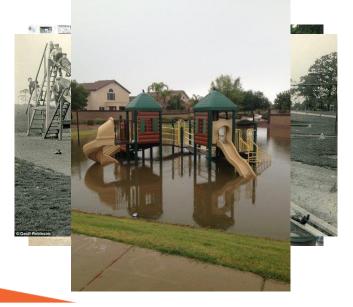
- Extent of playground use
- Ages of children using playground
- · Vandalism patterns

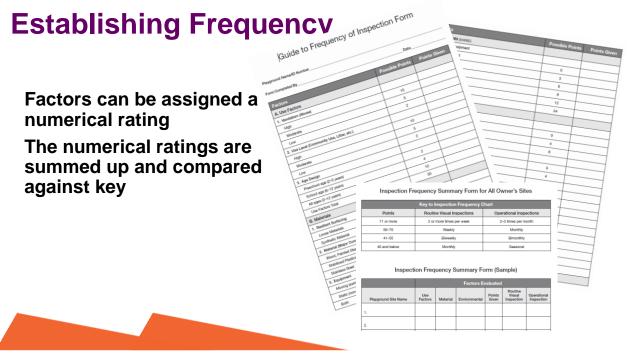
Development Factors:

- Type of surfacing materials
- Materials used to manufacture
- Age and type of equipment

Environmental Factors:

- · Soil/drainage conditions
- Climatic/Atmospheric conditions





Low Frequency Inspection

Playground Inspection & Maintenance Guide Page 25

- Quarterly, semi-annual maintenance tasks
- Not an instrument for a playground audit
- Playground was in compliance at time of installation
- Knowledgeable staff member to perform inspection
- Preventive maintenance and repairs



High Frequency Inspection

Playground	Inspector	Wenk of			1			
Walk-through Visual Chec	k & Routine and Cleaning Tasks	Mon	Tue	Wed	Thur	Fri	Sat	Su
GENERAL AREA					1000	-	-	
Area is free from all track broken	glose, econic, and shorm rummants	_		_	_	_	_	-
All walkways are free from ice an	d tho hagarda			-		-	-	1
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PROTECTIVE SURFACES		-	-	-	-	-	-	-
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Forface disinger's functioned wi		-	-	-	-	-	-	-
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PLAYGROUND EQUIPMENT								
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There are no user modifications, its ropes too to parts		-		-		-	-	-
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Playground Inspection & Maintenance Guide Page 29

- Daily/weekly maintenance tasks and inspections
- Conditions caused by use, weather, and/or vandalism
- Follow school or agency procedures including taking the area out of use or correcting the problem
- Review process

Low Frequency Inspection

Know Your Inspection Codes

Code	Explanation		
V	Okay		
М	Maintenance during inspection		
R	Repair required		
0	Outstanding issue		
Р	Parts needed		
Х	Completed (include date)		
N/A	Not applicable		

Playground Inspection & Maintenance Guide Page 26

Record Keeping

Record Keeping

- ✓ Original sales documents with list of purchased models, top view layout and IPEMA certificate for both equipment and surfacing
- ✓ Manufacturer's installation and maintenance instructions
- ✓ Copy of prior to use Inspection Audit and any actions taken
- ✓ High and Low Frequency Inspections reports including all follow up actions





Management and Staffing Priorities

- Inspections routine, timely, and followed up with action
- Have a system in place that ensures an appropriate response to hazards
- Success = Comprehensive commitment
- Continually educate staff
- · Bring in outside vendors when necessary
- Practice complete documentation



Design the program to be <u>consistent with the</u> <u>manufacturer's instructions</u> when available and take into account environmental conditions.



General Safety Considerations of Protective Surfacing

Protective Surfacing

Acceptable Surfacing

Loose-fill

- Engineered wood fiber (EWF)
- Loose-fill rubber **Does NOT meet ADA**
- Sand and pea gravel Does NOT meet ADA

Unitary

- Poured-In-Place (PIP) rubber
- Bonded rubber
- Tile
- Synthetic grass





Unacceptable Surfacing



- \sum
- Grass surfaces
- Packed Earth
- Concrete or Asphalt
- Other Hard Surfaces

Routine Visual Playground Inspections *Surfacing*

Inspect for foreign materials especially within equipment use zones.



Benchmark finished grade for all loose-fill surfacing material.



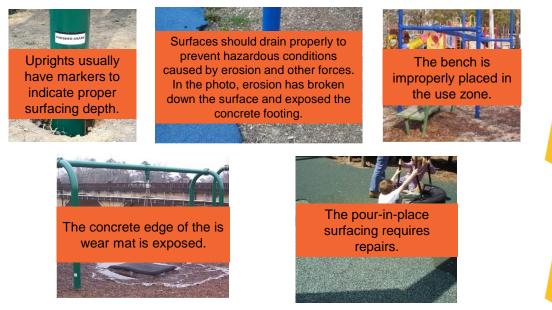
CPSC says falls on improper impact attenuating surfacing accounts for over 70% of all serious playground injuries and are the 2nd leading cause of death.

Routine Playground Inspections *Surfacing*

Inspect for unstable equipment and loose footings.



Routine Surfacing Inspection Items



Protective Surfacing

Loose-fill Acceptable Surfacing

- Must have proper impact attenuating (protective) surfacing
- Proper maintenance is essential



37

Loose-fill Surfacing Materials

- Require ongoing raking and replenishment • Containment like curbs
 - Wear mats help keep in place

• Organic

- Engineered wood fiber
- Recycled wood pallets
 - Natural decomposition
- Inorganic
 - Shredded rubber
 - Sand, pea stone, gravel
 - Less frequent replacement
 - Hardpan (gravel)





Routine Playground Inspections Unitary Surfaces

Types of Unitary Surfacing Materials						
Rubber Tiles	Poured-in-Place	Bonded Rubber	Synthetic Turf			

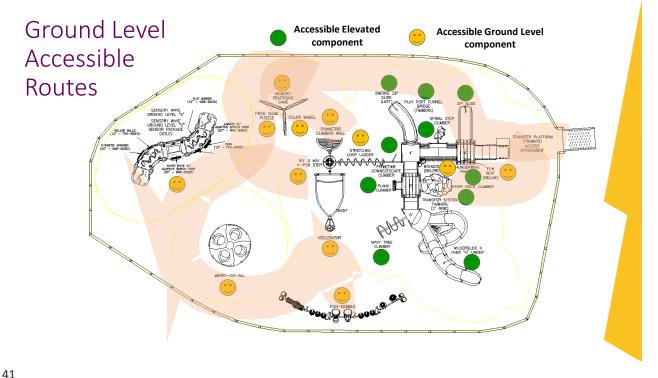
- May require sanitation
- May require maintenance due to surface debris, vandalism, movement of tiles, erosion, poor drainage, or worn areas
- · Consult manufacturer before applying chemicals or pressure washing

Making a Purchasing Decision

- Consider maintenance costs in the purchasing decision
- Maintaining loose-fill materials requirements
- Benefits of unitary materials
- Disadvantages of unitary materials



Protective Surfacing

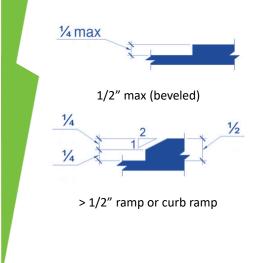


Maintaining Accessibility of Surfacing

- Accessible routes in the play are use zone are 60" wide minimum.
- Vertical change of elevation does not exceed ½"
- There is not a gap between the surfaces greater than ½" measured horizontally
- A cross slope of no more than 1:48 and a running slope that does not exceed 1:16
- Accessible routes must meet ASTM F1292 and be firm and stable

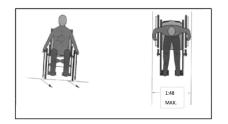


Changes in Level of an Accessible Route

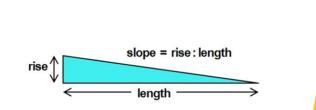




Accessible Route Slope



- Cross slope no steeper than 1:48
- Slope perpendicular to the direction of travel



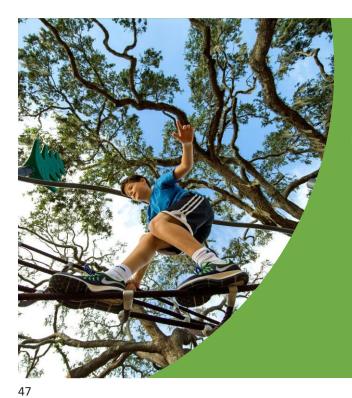
- Less than 5% = Walking surface
- Greater than 5% = Ramp
- Running Slope can be no steeper than 1:16 in the direction of travel

Firm and Stable

- Field testing with an instrumented surface indenter
- Portable precision instrument for measuring surface firmness and stability



Polling Question



General Safety Considerations of Playground Environments

Inspect Equipment, Amenities & Surrounding Area



- ✓ No damaged, loose, vandalized, or missing parts
- ✓ Stable and not bent
- ✓ Moving parts in good repair
- ✓ Free from user modifications or foreign objects/hazardous materials



Routine Visual Inspection Items General Safety

- Remove trash, broken glass, storm remnants, etc.
- Empty trash cans
- Ensure entries and walkways are free from ice, trip hazards, sand or gravel
- Site amenities outside of use zones, equipment free from alterations



Routine Visual Inspection Items General Safety

Play areas should be free from:

- Pests, like insects and vermin
- Nests of these pests
- Animal feces, bodily fluids, bird droppings
- Other materials that may be unsanitary



Finishes and Materials

Materials Conditions

- Wood surfaces should be free from rot, splinters, warping, and severe cracking
- No damaged, bent, broken or missing parts
- Plastic components should be free from cracks, holes, and burns





When possible, obtain replacement wood from the manufacturer of the wooden play equipment.





Finishes and Materials

Materials Conditions



Surfaces are free of mold, mildew, graffiti, and vandalism

Metal surfaces are free from rust and chipping paint



Finishes and Material

Materials Conditions



No welded joints are broken, rusting, or rough



PVC coated components do not show signs of wear and tear

Routine Visual Inspection Items General Safety: Fasteners

- Identify missing parts, fasteners, or structural components (repair or remove-fromservice).
- Use manufacturer's parts unless otherwise directed by manufacturer in writing.





Routine Visual Inspection Items General Safety: Footings

- Footings and other forms of anchoring devices should be stable and should not be exposed
- Springs and rocking components should be in good repair



General Safety

Slides

- Slide bedways and side walls are smooth and free from debris
- Slide bedway and the attachment point of the slide to the platform show no conditions that might entangle clothing or body parts



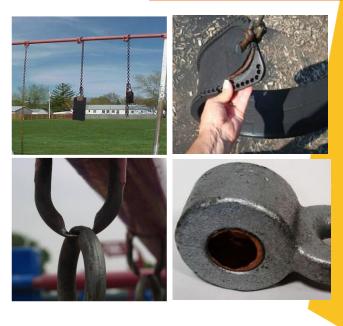




Swings & Moving Components

- Swing chains or cables are not twisted and are free from excessive wear
- Swing seats are smooth, in good condition, and free from cuts or tears
- "S" hooks are closed and free from excessive wear
- Swing hangers are free from excessive wear and bushings are lubricated

Purchase <u>swing chain from a playground</u> <u>equipment manufacturer</u>. Chain purchased from a hardware store can have a different hardness that is not suitable for playground use.



General Safety

Swings & Moving Components

- Tire swing seats should be less than 35 lbs., smooth and rounded, and in good condition
- Tire swing assemblies, including swivels and/or bearings, should remain properly greased and in good condition
- Ensure that moving components (spinning, swinging, rocking, etc.) are in good condition, secure, and lubricated







Gripping and Stepping Components

- Handholds/grips are tight, in good condition, and do not rotate
- Surfaces are level, stable, and clean
- All foot rungs/holds are tight, secure, and are in good condition



Routine Visual Inspection Items General Safety: Signs

Verify required signs are present/legible

Intended user, age-supervision statement, hot equipment/surface or other potential warnings, identify manufacturer



Pictures or universally accepted symbols work best



Polling Question

Required Maintenance *Closing the Play Environment or Equipment*

- Construction fencing may be used temporarily to close the play area for repairs.
- Caution tape should only be used for a very short time and while maintenance staff is onsite



Playground Equipment

Playground Equipment



- Free from user modifications, foreign objects
- Moving parts are in good repair
- Hazardous Materials

Check <u>inside tunnels and tube slides</u> as well as <u>between the sections</u> of slides to make certain there are no hidden dangerous materials.



Projection Gauges



Projection gauges are an important part of an inspection tool kit

General Safety

Crush and Shear Hazards

- May crush a child's finger or cause amputation
- Could occur on heavy moving components

(Examples: see-saws & bridges)



Test: Place a 5/8" dowel in the opening. If it could close down on the dowel, hazard is present and should be corrected.

Entanglement and Protrusion Hazards

No more than two threads exposed on a bolt end





Hardware should not increase in diameter from the initial surface



Gaps in the "S" hook should not be greater than .04 inches

No gaps at the entrance to a slide at the point of attachment

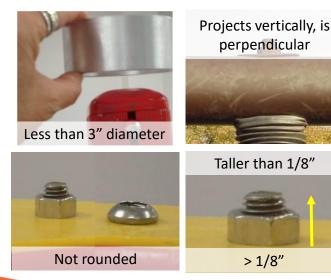


- Caused by hardware or small diameter components that project out from a surface
- · May entangle clothing resulting in strangulation, laceration, contusion, or other soft tissue damage

General Safety

Vertical Entanglement Hazards

Hardware and small components do not project vertically above a horizontal unless the projection is less than 1/8" or is rounded



Protrusion Hazards



Place each gauges over all projections



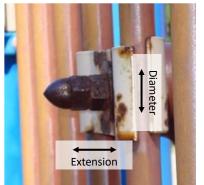
Extends past the gauge



For suspended components use 1 ¼" diameter, 1/8" extension gauge

General Safety

Other Potential Hazards





Check for sharp points and edges



Check that bold ends show <u>less</u> than 2 threads and are rounded and smooth

Polling Question

Head Entrapment Hazards



- Test all completely bound openings that measure between 3 1/2" and 9"
- An opening where safety surfacing is the lowest boundary is not considered a hazard and is not tested

General Safety

Head Entrapment Hazards

- Can occur when children enter an opening feet first with only the legs and torso passing through the opening
- Bound openings between 3 ½" and 9" must be considered for head entrapment

Examples:



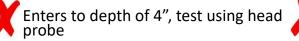
General Safety

Test for Head Entrapment Hazards

Test completely bound openings measuring 3 1/2" to 9"



Torso Probe <u>Does not</u> enter, opening is compliant





Head Probe Enters and exits freely, opening is compliant



Potential Hazards Fasteners

Inspect and replace worn fasteners, fastening connectors, and connectors (max 30% rule)









Fasteners

- Hardware is present, tight, and fully engaged
- Caps and plugs are present on the ends of all pipes and tubes



Fasteners

- Turnbuckles are fully engaged and properly adjusted
- Fittings and bearings are functional, lubricated, and squeak free
- Cables and ropes are securely fastened



Required Maintenance

General Areas

Required Maintenance

- Remove trash, broken glass, storm remnants, etc.
- Empty trash cans
- Ensure entries and walkways are free from ice, trip hazards, sand or gravel
- Site furnishings outside of use zones, equipment free from alterations

Required Maintenance

- Construction fencing may be used temporarily to close the play area for repairs
- Caution tape should only be used for a very short time and while maintenance staff is onsite



Closing the Play Environment



General Areas

Required Maintenance

- If a damaged component needs to be removed, but the structure/playground will remain open, block the entrance to the component
- Areas should be free from standing water
- Proper and timely playground maintenance helps ensure children are playing on a compliant structure









General Safety

Cleanliness and Sanitation of the Play Equipment



- Play areas should be free from:
 - Pests, like insects and vermin
 - Nests of these pests
 - Animal feces, bodily fluids, bird droppings
 - Other materials that may be unsanitary

Potential Hazards Landscaping

- Look for dead limbs in striking distance of the play area
- Dead trees and/or tree limbs and other landscape materials in and around the playground that could cause serious harm.
- Inspectors should evaluate the situation and immediately report dead plant material to proper authorities responsible for addressing the situation.



83

A Final Thought...

Not all playground accidents "just happen".

They may occur because the proper actions that could have minimized the user's exposure to the unsafe condition were ignored and resulted in an accident.

Who failed in their responsibility to properly maintain the playground on behalf of the children?

Don't let this be you.

And remember...

"Maintenance, like a fine art is

90% knowing how,

8% preparation,

and 2% execution."

Monty Christiansen 2010 Forward to Maintaining Child's Play ©PDRMA 85/165.046



Outdoor Adult Fitness Equipment

85

Outdoor Adult Fitness Equipment





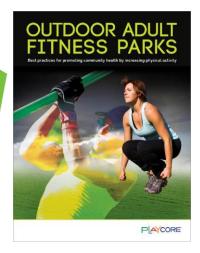


Observe Standards



Resources

Outdoor Adult Fitness Parks Guidebook





For more information www.playcore.com/programs/outdoor-adult-fitness



89

Nature Play Areas

Nature Play

- Intentionally designing nature into the everyday spaces of childhood is a growing trend for schools and parks
- A comprehensive program of playground safety should also include inspection and management of natural play areas



Nature Play Areas

Undeveloped Natural Environments



- These are specific environments where nature is simply there for the child to discover and explore
- These areas might be a meadow, waterway, and woods that are designated for natural play
- It might be a section of the woods off of a trail that is set aside for children to interact with

Nature Play Areas

Manufactured Nature Environments

- One where the owner has taken natural elements such as boulders and tree sections and placed them in an area with the intention that children interact with the materials in an unstructured manner
- Surfacing is required in areas intended to climb, balance, etc.
- Rich in diverse plant materials, loose parts and may include natural or man-made water areas



NatureGrounds Guidebook





For more information www.playcore.com/programs/naturegrounds





Dog Parks

- Protect your investment with proactive planning
- Equipment inspection and maintenance
- Surfacing maintenance and replenishment
- Weed control

Additional maintenance may be needed or required depending on the site, its amenities and surfacing, and usage.

- Tending to surfacing filling holes and/or re-seeding
- Mowing grass
- Hand weeding/tending to landscaping (do not use toxic weed spray)
- Removing dog waste
- Spraying/hosing down equipment, furnishings, trash receptacles
- Refilling disposable waste bags and hand sanitizer
- Emptying trash receptacles
- Inspecting fencing for damage
- Tending to bacterial growth on fencing
- Inspecting gates and locking mechanisms
- Inspecting equipment and amenities



Resources

Unleashed Guidebook





For more information www.playcore.com/programs/unleashed



Music Parks

Music Parks

Inspection, Maintenance, and Care of Your Music Parks



Check for sound and function

- Clean with soap and water



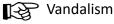
Check mallets for condition and proper attachment



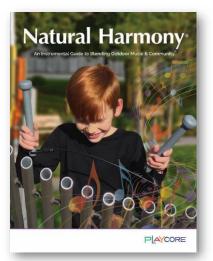
Inspect surfacing



Residue remover could be used – check manufacturer specifications



Natural Harmony Guidebook





For more information www.playcore.com/programs/natural-harmony



Site Amenities

Site Amenities

Site Amenities

- Always follow installation instructions closely
- Check for wear, loose hardware, or vandalism at least every 6 months – dependent on location
- Free of rust and repaired whenever needed to deter further rusting or damage
- Tighten bolts, nuts and setscrews
- Wipe down with mild cleaner. Graffiti can be removed using cleaner





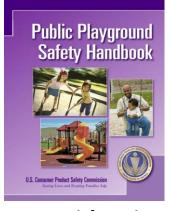
Resources

- NRPA National Recreation and Park Association (www.nrpa.org/playgroundsafety; 800-626-6772)
- NRPA is dedicated to educating professionals and the public on the essential nature of parks and recreation.
- IPEMA International Play Equipment Manufacturers Association (www.ipema.com; 888-944-7362)
- IPEMA is a non-profit, membership, trade association that represents and promotes an open market for manufacturers of playground equipment and surfacing.
- NPPS National Program for Playground Safety (www.uni.edu/playground; 800-554-7529)
- NPPS is the premier non-profit organization in the United States delivering training and services about outdoor play and safety.
- ASTM ASTM International (www.astm.org; 610-832-9500)
- ASTM, formerly the American Society for Testing and Materials, is an independent and renowned developer of technical standards utilized in testing a multitude of products, including playground equipment and related products.
- CPSC Consumer Product Safety Commission (www.cpsc.gov; 800-638-2772)
- The CPSC regulates many products, including playground equipment and related products, to help ensure consumers/users safety.
- Access Board U.S. Architectural and Transportation Barriers Compliance Board (www.access-board.gov; 800-872-2253)

Consumer Product Safety Commission (CPSC)

- Consumer Product Safety Commission (CPSC) Publication 325 Public Playground Safety Handbook
 - Presents safety information for public playground equipment in the form of guidelines to promote greater safety awareness among those who purchase, install, and maintain public playground equipment.





For more information www.cpsc.gov, publication #325

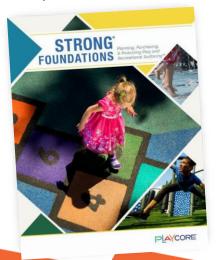
2010 Americans with Disabilities Act (ADA) Standards for Accessible Design

- Mandate establishes enforceable minimum design standards for public playground and maintenance requirements for the accessible route to accessible play components
- The accessible route should be a minimum of 60 inches wide and have minimum 80 inches overhead clearance
- Must be **compliant through installation** throughout lifetime of playground

For more information

https://www.access-board.gov/guidelines-andstandards/buildings-and-sites/about-the-adastandards/ada-standards

Strong Foundations: Planning, Purchasing & Protecting Play and Recreational Surfaces



- Features and benefits of various surfacing options
- Best practices, considerations, and strategies when planning, purchasing, and protecting your surfacing investment
- How surfacing can be utilized to increase the overall play value and recreation
- Standards, criteria, inspection tools, and other resources

For more information www.playcore.com/strongfoundations

Steps to Receive Continuing Education Credit

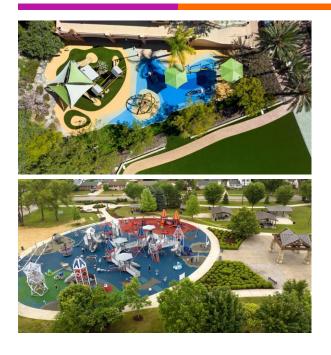
CORE PROFESSIONAL DEVELOPMENT HUB	Home Profile My Dashboard ORE Resources. FAQs Cart Back to PlayCore.com	-	
Welcome! Madeleine Condoure - Log Out	☆ Live / Playground Inspection & Maintenance: Preserve, Promote, Protect	✓ You are registered!	1.education.playcore.com
Search Analytic Search Find Contact Us Site Feedback Phose helps us improve the exertificate by providing your freshick below: (Provide Feedback Accessibility Tool	Includes a Live Web Event on 04/25/2024 at 2:00 PM (EDT) Overview Speakers Handouts Credits Offered Disclosures/Notes Event Details (4) Key: Key: Complete Next = Failed Available _ Locked		2. Go to My Dashboard
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	Obtaining your CEU Credit Outsining your CEU Credit Outsining your CEU Credit Outsitons		4. Obtain CEU Certificate
I	O Step 2: Complete Playground Inspection & Maintenance Quiz O Questions 1 Unlimited attempts 1 80100 points to pass		Open Until May 5 th
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109



Resources

- Questions?
- Education
- Resources
- Newsletter
- Funding Tool

- core@playcore.com
 - education.playcore.com
 - playcore.com/resources
- playcore.com/newsletter
- playcore.com/funding





Thank You!



Turning research into practice.*