“One reason for the biggest loss of lives of senior citizens and people with disabilities during Katrina was because no one prior to the storm planned for these populations adequately…” National Council on Disability January 29, 2008
Learning Objectives

After completing this training, you will be able to:

• Define Universal design and understand its use;

• Define disability and access and functional needs and understand their differences;

• Identify how transportation isn’t an isolated resource but touches other areas of emergency planning and;

• Understand your role and responsibilities in emergency preparedness: the role of an individual with a disability, an emergency planner, an advocate or community partner.
Total Civilian Noninstitutionalized Population With a Disability

Source: U.S. Census, American Community Survey, 2017 (1-year estimates). Table S1810: Disability Characteristics.
What is Universal Design?

Universal Design is a design process that enables and empowers a diverse population by improving human performance, health, and wellness, and social participation.

Ed Steinfeld, AIA and Jordana Maisel
Define Disability and Access and Functional Needs

**Disability**: a person with a disability is defined by the Americans with Disabilities Act, as a person who has a physical or mental disability that limits one or more of life’s major activates. It is also a person who has a history or record of such a disability; or a person who is thought by others to have such a disability.

**Access and Functional Needs**: are people with needs that develop before, during, and after an incident or disaster in functional areas. These areas are communication, health and medical needs, maintaining functional independence, personal care assistance and transportation.
Universal, Accessible and Usable Design

UNIVERSAL DESIGN
Designs that benefit people with the widest possible range of abilities.

ACCESSIBLE DESIGN
Designs that meet the technical criteria setting the minimum level of access required by law for people with disabilities.

USABLE DESIGN
The "effectiveness, efficiency, and satisfaction with which a specified set of users can achieve a specified set of tasks in a particular environment."
Why is Universal Design Important?

- Universal Design is a process and an orientation, not an outcome.
- The design of products and environments are usable by all people, to the greatest extent possible, without the need for adaptation or specialized design.
- Information technology, products are often designed to eliminate or minimize the need for assistive technologies.
- They are also compatible with common assistive hardware and software devices.
How to Use Universal Design?

1. Identify the application
2. Define the universe (population, the diverse characteristics of potential users)
3. Involve consumers
4. Adopt guidelines or standards
5. Apply guidelines or standards
6. Plan for accommodations
7. Provide training and support
8. Evaluate and make modifications as required
Transportation considerations:

1. Planning
2. When and where to evacuate
3. Communication: Language/Cultural
4. Caregivers/Personal Assistants/Families
5. Providers
6. Shelters
7. Service Animals/Comfort animals/Pets
8. Valuable/Medical Equipment/Supplies
9. Economics
TRANSPORTATION: Community Planning

Be a part of a planning team:
• Work with emergency managers
• Community leaders

If you need transportation:
• Identify community transportation supports
• Identify and contact local transportation providers

If you have a vehicle:
• Prepare your vehicle
TRANSPORTATION: Individual Planning

A disaster is coming, how do I get help?
Have a communication plan:
  - Contact information for caregiver
  - Contact information for family
  - Contact information for housing or sheltering site
  - Transportation provider
  - Contact information for medical equipment, pharmacy and veterinarian for service animal.
TRANSPORTATION: Communication

When to go, when to stay?
- Evacuation notice

Provide communication Training to:
- Emergency Managers
- First Responders
- Fire Fighters
- Law Enforcement
- Volunteer rescue staff

EVACUATE instead of sheltering in place if you are ordered to do so by local authorities.
TRANSPORTATION: Language and Culture

Door to door notifications:

- Language
  - American Sign Language
  - Sign Language in other languages
  - Gestures
- Cultural
  - Expressions/gestures

Officer uses hand gestures to tell resident to evaluate.
Will individuals with disabilities and their caregivers be allowed to travel together?

A transit bus equipped with a wheelchair lift is used to evacuate individuals and families.
TRANSPORTATION: Providers

Transportation support teams

Conventional transportation providers

- Private automobile
- Contracted transportation

Para Transit

Ambulance

A lift-equipped school bus is used to evacuate an individual using a wheelchair and her family.
## TRANSPORTATION: Potential Resources

<table>
<thead>
<tr>
<th>County</th>
<th>Regular School Buses</th>
<th>Accessible School Buses</th>
<th>Total School Buses</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cameron</td>
<td>478</td>
<td>192</td>
<td>670</td>
</tr>
<tr>
<td>Hidalgo</td>
<td>1,012</td>
<td>237</td>
<td>1,249</td>
</tr>
<tr>
<td>Jim Hogg</td>
<td>9</td>
<td>2</td>
<td>11</td>
</tr>
<tr>
<td>Starr</td>
<td>169</td>
<td>36</td>
<td>195</td>
</tr>
<tr>
<td>Webb</td>
<td>279</td>
<td>108</td>
<td>387</td>
</tr>
<tr>
<td>Willacy</td>
<td>41</td>
<td>8</td>
<td>49</td>
</tr>
<tr>
<td>Zapata</td>
<td>31</td>
<td>6</td>
<td>37</td>
</tr>
</tbody>
</table>

How to get your needs met while away from home?

Where will you go?

- Hotel/Motel
- Public Shelter
- Hospital
- Home of family or friend
Electricity Dependent Users

Medicare Data Totals
- Geographical Area: Zapata, Jim Hogg, Willacy, Cameron, Hidalgo, Starr, Webb
- Beneficiaries: 198,079
- Electricity-Dependent Beneficiaries: 6,056

Electricity-Dependent Scale
- 0 - 0
- 1 - 255
- 256 - 976
- 977 - 7,517
- 7,518 - 36,125
Considerations for animals fall into four categories:

- Service Animals
- Comfort/Emotional Animals
- Pets
- Farm Animals
TRANSPORTATION: Valuables, Medical Supplies and Equipment

- Mobilized Wheelchairs, various mobility devices
- Hydraulic Lifts,
- Bariatric equipment
- Jewelry, cameras, telephones, televisions, computers, iPads, credit cards
- Large supplies of consumable medical goods and supplies
- Family heirlooms
Economics

Individual/Family:
- Rainy day funds
- Cash on hand
- Credit limits
- Travel points and amenities

Community Economics:
- Memorandum of Understanding
- Contracts
- Procedures
- Budget funding
- Designated taxes
- Grants
Learning Check #1
What is Universal Design?

WHAT HAVE YOU LEARNED?
Learning Check #1 Answer

Universal Design is a design process that enables and empowers a diverse population by improving human performance, health, and wellness, and social participation.
Learning Check #2
List Some ways that Universal Design Can Be Used.

WHAT HAVE YOU LEARNED?
Learning Check #2 Answer

1. Identify the application
2. Define the universe (population, the diverse characteristics of potential users)
3. Involve consumers
4. Adopt guidelines or standards
5. Apply guidelines or standards
6. Plan for accommodations
7. Provide training and support
8. Evaluate and make modifications as required
Learning Check #3
List Some Important Transportation Considerations

WHAT HAVE YOU LEARNED?
Learning Check #3 Answer

1. Planning
2. When and where to evacuate
3. Communication: Language/Cultural
4. Caregivers/Personal Assistants/Families
5. Providers
6. Shelters
7. Service Animals/Comfort animals/Pets
8. Valuable/Medical Equipment/Supplies
9. Economics
Unit Summary

What is one thing you learned from this unit that you believe will help you on the job?
REFERENCES


An ADA Guide for Local Governments Making Community Emergency Preparedness and Response Programs Accessible to People with Disabilities. U.S. Dept. of Justice, Civil Rights Division, Disability Rights Section. Also source of Clip Art. [Downloaded 2/12/2019].

Calema Transportation Evacuation Planning. Toolkit Be Ready to Go: Evacuation Transportation Planning Tips [Downloaded 2/13/2019].


Texas emPower, Medicaid and Electricity Dependent Users[ Accessed 20 February 2019].