

## Basic Food Handlers Course for Temporary/Short-term Food Sales/Fundraising Events

Environmental Health
Public Health / BDAACH
Camp Humphreys



### **Food Handlers Course**

□Purpose: To provide Public Health guidance and support to members of Camp Humphreys community who wish to prepare and offer food products on a short-term basis to the public. This training will equip food handlers with the basic principles of food safety that must be applied when conducting a temporary food operation on the installation.

\* This basic food handlers course does not meet the requirements for the 4-hour annual training required for employees of food service establishments operating on Camp Humphreys.



### **Common Findings On Food Event**

- Food purchased from unapproved food sources
- . TCS food prepared and cooked in a home kitchen
- Food handlers not wearing a hat or hear net, not washing hands properly
- Cold holding and hot holding units not meeting the temperature requirement
- TCS food stored at room temperature (eg, Spam musubi, cream and cheese cakes, etc.)
- Food establishment not prepared with sanitizing solution(or wipes) and food thermometer



#### **Tri-Service Food Code**

- ➤ All food service establishments operating on Camp Humphreys are subject to inspection by PH/EH for compliance with the Tri-Service Food Code (TB MED 530).
- Training Requirements— All food employees will be trained to perform prescribed duties in a safe manner and in accordance with prescribed sanitation and food safety requirements.
- ➤ All individuals preparing or serving food for consumption within Camp Humphreys area of responsibility must receive basic food handling training with a valid food handlers certificate. Certification is valid for one year from date of issue.



#### **Tri-Service Food Code**

- Food Employee: An individual working with unpackaged food, food equipment or utensils, or food-contact surfaces.
- IAW Tri-Service Food Code/TB MED 530, individuals preparing, cooking and/or serving unpackaged foods are considered food employees.
- Foods served at Temporary/Short-term food sales/events are to be prepared on-site utilizing food safety principles and methods. Potentially hazardous foods are <u>NOT</u> to be prepared in a home kitchen and offered for consumption at the sale/event.
- Home-prepared foods, except home-canned foods, are authorized in support of special events such as organizational cookouts, bake sales (non-potentially hazardous foods only), unit or chapel suppers, and similar events.
- Consult with the REGULATORY AUTHORITY to assess RISKS associated with foods prepared in private homes.



## **Training Topics**

Training will include the basic principles of food safety, which includes but is not limited to the CDC 5 foodborne illness risk factors:

- 1. Food from unsafe sources
- 2. Inadequate cooking
- 3. Improper holding/time-temperature
- 4. Contaminated equipment/cross contamination protection
- 5. Poor personal hygiene

#### Additionally, we will discuss:

- Labels
- Allergens
- Site specific requirements



## What is a PHF? What is a Non-PHF?

## PHF (TCS): Potentially Hazardous Food (Time/temperature Control for Safety)

- Defined as foods that require time/temperature control for safety to limit pathogen growth or toxin formation.
- Examples: dairy, lunch meat, hot dogs, raw meats & poultry, cut fruits & vegetables, eggs, cooked plant foods, dressings, raw seed sprouts, garlic & oil mixtures, etc.

#### Non-Potentially Hazardous Food

- Defined as foods that do not support the growth of microorganisms
- Examples: cookies, cakes, muffins, breads\*
   \*Baked goods containing an animal/dairy product, fruit, or vegetable add-in will be treated as a PHF.



### **Approved & Inspected Food Sources**

- Food, including all ingredients, shall be obtained from <u>APPROVED</u> and <u>INSPECTED</u> sources. (Commercially purchased)
- Example of unapproved foods:
- Home-Canned Foods (food in a hermetically sealed container prepared in a private home) are not permitted to be used as an ingredient or offered for human consumption.
   (example: Home-canned vegetables such as Green Beans, Tomato Juice, Apple Butter, Jams, or Jellies, etc.)
- Home grown vegetables, fruits, or herbs may not be used as an ingredient or offered for human consumption.
- Meat & Poultry shall be from a USDA inspected source.
- Farm-fresh eggs, personal-raised beef, pork, or poultry from an uninspected source may not be used. Game animals may not be offered for consumption.



## Consumer Advisory at Temporary/Short-term Sale/Event

### For Non-Potentially Hazardous Foods:

Consumer shall be informed by a clearly visible placard at the sales or service location that the food is prepared in a kitchen that is not subject to regulation and inspection by the Regulatory Authority (PM/EHS).

"Food sold at this location has been prepared in a home kitchen that is not subject to regulation and inspection by the Regulatory Authority."



## Where to prep foods?

ALL Potentially Hazardous Foods (PHF) must be prepared <u>ONSITE</u> utilizing the appropriate sanitary measures to ensure a wholesome and safe food product.

❖PHF foods cannot be prepared in a home kitchen.

#### ICE

- ✓ ICE must be made from drinking water.
- ✓ Ice must come from an approved source



- Stored in the original package or in a clean and sanitized cooler.
- Ice used for cold holding may not be served for consumption or used an in ingredient.



## Washing Fruits & Vegetables

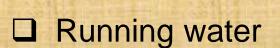
- Raw fruits and vegetables must be thoroughly washed in potable water to remove contaminants before being cut.
- Washed fruits and vegetables must be kept separate from the ones that have yet to be washed.
- <u>Cut</u> fruits & vegetables must be held at 41° F or below.





## **Proper Thawing Methods**

- ☐ Refrigeration (\*PREFERRED METHOD)
  - √ 41°F or below.



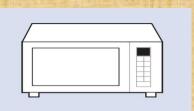
- √ Water temperature 70°F or below.
- ✓ Sufficient water velocity to agitate and float off loose particles in an overflow.



✓ Immediately transferred to conventional oven.

☐ As part of the cooking process.

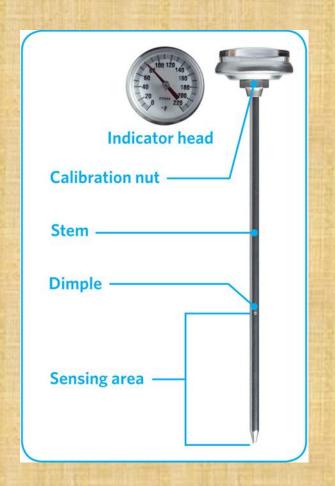








## **Checking Internal Temperatures**



Using a bimetallic stem thermometer

(Marked 0-220 ° F, +/- 2 ° F) Use to check and monitor

the internal temperature of PHFoods.

\*Tip\*To calibrate thermometer:

Place thermometer in a cup of 50/50 Ice Water.

Allow temperature to stabilize. Should read 32°

F. If not, use a pair of plyers and adjust the calibration nut.



#### **Checking Internal Temperatures**

- Insert stem into the THICKEST part of the food to gain an accurate reading.
- If checking food in a crock pot, do not let stem rest on the sides or bottom of the crock.
- Clean and sanitize with an alcohol prep before and after use.





### 145°F (63°C) or above and held for 15 seconds

- Shell eggs that will be served immediately
- Steaks/chops of pork, beef, veal, and lamb
- Commercially raised game
- Seafood-including fish, shellfish, and crustaceans
- ❖ Whole Intact Meat Roast (beef, corned beef, lamb, pork, and cured pork roasts such as ham) shall be cooked to 145°F and held at 4 minutes (other time/temperature ranges are available, please consult with EHS for more info.)



## 155°F (68°C) or above and held for 15 seconds

- Shell eggs that will be hot held (Ex: buffet)
- Ground meat (beef or pork, Ex: hamburger)
- Injected meat (incl. brined ham and flavor injected roasts)
- Tenderized meat
- Ratites (emu, ostrich)
- Ground seafood (incl. ground or chopped)

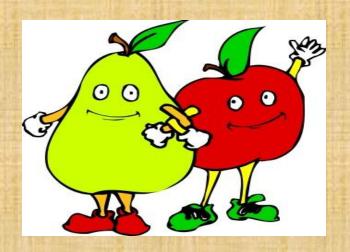


### 165°F (74°C) or above and held for 15 seconds

- All Poultry (Ex: chicken, turkey, duck, etc.)
- Stuffed Fish, Meat, Pasta, Poultry, Ratites(emu, ostrich, rhea)
- Stuffing containing Fish, Meat, Poultry, or Ratites
- Wild Game Animals
- \*Raw animal foods cooked in a microwave oven. (Shall be rotated/stirred, covered, and allowed to stand for 2 minutes)



Fruits and vegetables that are cooked for hot holding shall be cooked to an internal temperature of 135°F (57°C).

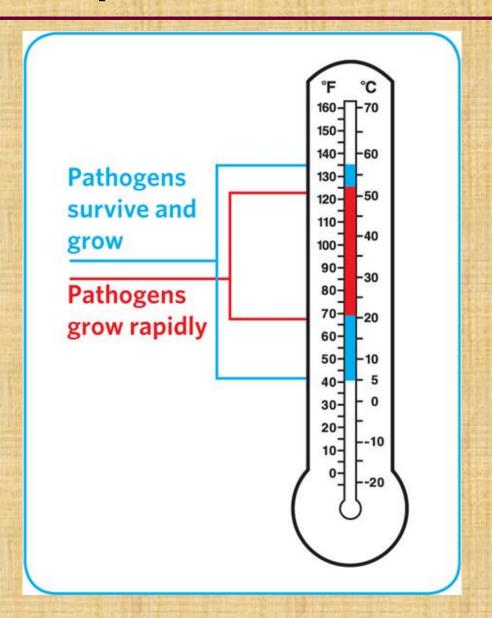




## **Temperature DANGER ZONE**

#### Temperature Danger Zone:

- 41 ° F to 135 ° F
- This is the temperature range that pathogens grow well. Food must pass thru this range quickly!
- Pathogens grow rapidly between 70° F and 120°F





#### Proper Hot/Cold HOLDING of PHF

PHF(TCS) Food shall be maintained-

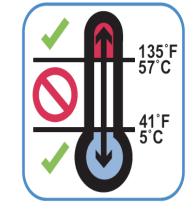
(1) At 135°F (57°C) or above (Hot Holding)

-Disposable chafing dishes (Used when electricity is not available, still MUST be maintained at 135°F or above)

- Place water in pan prior to adding food pans
- Allow time to warm up prior to placing food
- (2) At 41°F (5°C) or less (Cold Holding)

(3)Plant foods that are cut, sliced, or diced as well as cooked plant foods shall be maintained at 135°F or above OR at 41°F or below.

- ❖ Keep HOT foods HOT &
- Keep COLD foods COLD

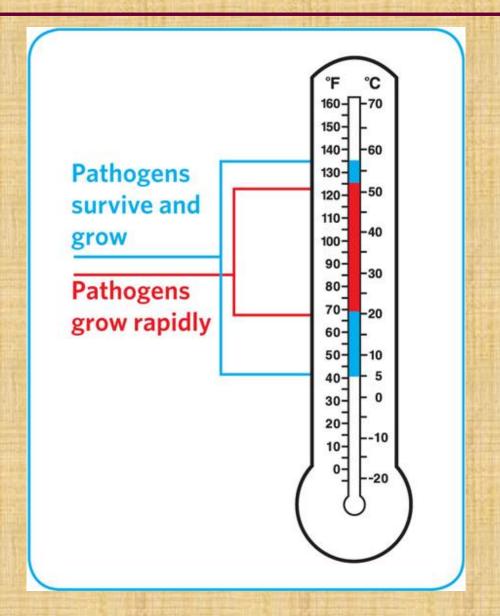




### **Reheating PHF**

#### **REHEATING** Foods:

✓ PHF foods shall be heated from 41 ° F to 165 ° F (and held for 15 seconds) within 2 hours





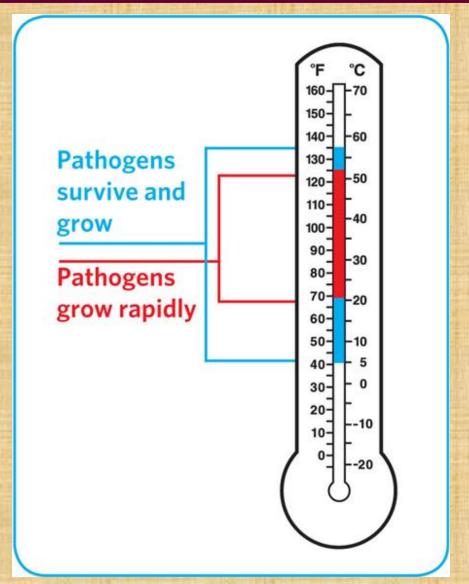


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#### **COOLING PHF**



#### **COOLING** Foods:

- ✓ 1<sup>st</sup>: Cool food from 135° F down to 70° F within 2 hours.
  - ✓ 2<sup>nd</sup>: Then Cool Food from 70 ° F down to 41° F or lower in the next 4 hours.

(Total time ≤ 6 hours)



## **Proper Cooling Methods**

- Placing in shallow pans and refrigerate
- Separating into smaller or thinner portions and refrigerate
- Using rapid cooling equipment
- Stirring the food in a container placed in an ice water bath

- Using containers that facilitate heat transfer
- Adding ice as an ingredient





#### **Leftovers/Prohibited Leftovers**

Leftovers may be retained IF ALL of these conditions are met:

- ✓ PHF was cooked to the correct internal temperature
- ✓ <u>Held</u> at the correct hot (≥135° F) temperature AND the food product was <u>RAPIDLY COOLED</u> (from 135°F down to 70° F within 2 hours AND from 70° F down to 41° F with in the next 4 hours, <u>not</u> to exceed 6 hours)
- ✓ Held at the correct cold (≤41° F) temperature
- ✓ The food product must <u>NOT</u> have been available for customer self-service



#### **Prevent Cross-Contamination**

<u>Cross-Contamination</u>= Pathogens are transferred from one surface or food to another

#### **Guidelines to Prevent Cross-Contamination:**

- Separating Raw animal food from other raw animal food & from Ready-to-Eat foods
- Cleaning & Sanitizing Equipment & Utensils
- ✓ Prepping Food at Different Times
- ✓ Use Separate/Designated Equipment
- Separating fruits & vegetables before they are washed from Ready-to-Eat foods
- Buying Prepared Food



\*Keep RAW & Ready-to-Eat Foods SEPARATE\*



## Preventing Contamination From Hands

- Food handlers shall wash their hands in a designated hand washing sink as required.
- Use disposable food service gloves properly.
- Food handlers may <u>NOT</u> contact exposed, ready-to-eat foods with their bare hands and shall use suitable utensils such as deli tissue, spatulas, tongs, single-use gloves, or dispensing equipment.



#### When to Wash Hands

➤ Food employees shall clean their hands and exposed portions of their arms immediately before engaging in food preparation including working with exposed food, clean equipment, and utensils, and unwrapped single-service and single use articles



#### When to Wash Your Hands:

#### Wash Your Hands AFTER:

- ✓ touching bare human body parts other than clean hands and clean, exposed portions of arms
- ✓ using the restroom
- ✓ caring for or handling service animals
- ✓ coughing, sneezing, using a handkerchief or tissue
- √ using tobacco, eating, or drinking
- √ handling soiled equipment or utensils
- ✓ during food preparation, as often as necessary to remove soil and contamination and to prevent cross-contamination

#### **AND Wash Your Hands:**

- ✓ when switching between working with RAW & READY-TO-EAT Foods
- ✓ before and after wearing gloves
- ✓ engaging in other activities that contaminate hands.





#### **How to Wash Your Hands**

- 1. Rinse under potable, running warm water
- 2. Apply an amount of cleaning compound
- 3. Rub together vigorously for at least 10-15 seconds, paying attention to under the nails, cuticles, between the fingers, fingertips, and any exposed area of the forearms
- 4. Thoroughly rinse under potable, running warm water
- 5. Thoroughly dry with disposable towels or a heated-air hand drying device.

\*Entire handwashing process should take at least 20 seconds.

<sup>\*</sup>To avoid recontamination of your hands, use a disposable paper towel or similar clean barrier when touching the faucet handles of the handwashing sink or the handle of the restroom door.



## **Handwashing Requirements**

- If food is handled in an Unpackaged form, adequate hand washing facilities MUST be provided.
- Hand washing facilities shall include:
- 1) Sufficient supply of potable water for wetting hands
- 2) Soap
- 3) Sufficient supply of potable water for rinsing hands
- 4) Disposable paper towels
- 5) Covered receptacle for waste



## **Proper Use of Gloves**

- Single-use gloves shall be used for only one task such as working with ready-to-eat foods or with raw animal food,
- Used for no other purpose, and
- Must be discarded when damaged, soiled, or when interruptions occur in the operation.





## **Proper Use of Gloves**

- Gloves must never replace hand washing
- If misused, gloves may serve as a source of crosscontamination
- All disposable gloves, regardless of type, shall be powderfree.

- \* Use of latex gloves is prohibited
- \* Alternatives to latex include synthetic rubber or non-latex materials, such as neoprene, nitrile, or vinyl.



#### **In-Use Utensils**

# All utensils that come in contact with food, must be:

- Stored in the food product with the handle up and not in contact with the food product or container
- Stored covered or wrapped
   between use to prevent contamination





✓ If held out of temperature control, replaced with a sanitized utensil every 4 hours or less. (max. time is 4 hours)



## Serving/Dispensing Utensils

- Single-use and service items must be kept in original packaging, handled, or displayed where the food or lip-contact surface will not be exposed to contamination.
- Display utensils with the handle UP to prevent contamination.





## Where Do I Set Up?

- Locate a clean, dry area with ground cover and no overhead or nearby contaminants
- If a tent is used, inspect and clean tent PRIOR to setup to avoid contamination
- Must be 50 feet away for dumpsters, recycling bins, smoke shacks, other sources of contamination. Must be 90 feet from bodies of water.
- Must be 100 yards from port-a-lets in an outdoor setting.
- Accessible to a power source if electricity is needed for hot/cold holding or cooking equipment.



## What you may need to operate

- On-site Equipment: (will vary based on your operation)
- ✓ Hand washing capabilities & supplies
- Disposable gloves and utensils for ready-to-eat food handling
- ✓ Adequate cooking equipment & cooking utensils
- ✓ Adequate number of food preparation & serving utensils
- ✓ Bimetallic Metal Stem Thermometer & ability to sanitize
- ✓ Adequate cold & hot holding equipment (Ice chest, Crockpot and Chafing dishes are OK to use but must meet the temperature requirement and have proper capacity)
- ✓ Food covers/protection from the elements
- ✓ Ware washing containers, adequate cleaner, and sanitizing solution (or approved sanitizing wipes) and sanitizing test strips if preparing and cooking TCS food and washing utensils on-site
- ✓ Covered trash receptacles
- ✓ Single-serve items for patrons (disposable utensils, plates, napkins, cups, etc.)
- ✓ Ability to store food a <u>minimum</u> of 6 inches off the ground



# Ware washing Setup

If you will be cleaning and sanitizing food contact surfaces on site, you must have:

- 3 containers of adequate size to immerse food equipment.
   (Potable Water Only)
- 1st- Wash Container of SOAPY water
- 2<sup>nd</sup>-Rinse Container of RINSE water
- 3<sup>rd</sup>-Sanitize Container of SANITIZING SOLUTION (100 ppm Free Available Chlorine)
- 4<sup>th</sup>-Air Dry Equipment in a sanitary manner



# **On-site Cleaning & Sanitizing**

### Chlorine sanitizing solution

- > Preparation:
  - 1. Standard, non-scented household-type bleach or calcium hypochlorite (rated at 5 to 6 percent chlorine concentration)
  - 2. Mix 2 tablespoons (1 ounce) of bleach in 4 gallons of water
  - 3. Should give a concentration of 100-ppm Free Available Chlorine (FAC) sanitizing solution
  - 4. Check concentration with sanitizing test strips, adjust as needed



- All receptacles must be durable, cleanable, insect and rodentresistant, leak-proof and nonabsorbent.
- Receptacles must be kept covered if the receptacles:
  - Contains food residue and are not in continuous use
  - After they are filled
- Remove often to minimize odors and to prevent the attraction of pests.

# Handling of Trash/Refuse

- Receptacles must be kept covered with:
  - Tight-fitting lids
  - must be of sufficient size for the operation.





### Health

Do NOT prepare food or come in contact with the food service operation if you or someone you have been exposed to has symptoms of:

- □ Vomiting
- □ Diarrhea
- □ Jaundice
- ☐ Sore Throat with a Fever
- □ Open wounds or skin lesion containing pus (example: boil or infected wound that is open or draining)

Or a diagnosis of:

- \* Shigella spp.
- \*Salmonella Typhi
- \*Nontyphoidal Salmonella (NTS)
- \*Shiga toxin-producing

Escherichia coli (STEC), also

known as E. coli

\*Hepatitis A

\*Norovirus







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# **Employee Attire**



✓ Persons must wear clean outer garments to prevent contamination to food, utensils, equipment, linen, single-service and single-use items.

- No nail polish, fingernail jewelry, or artificial nails
- ✓ Fingernails trimmed to ¼ inch past fingertip, filed, & cleanable
- ✓ All persons handling and prepping food shall wear a hair restraint to effectively keep their hair and sweat from contacting exposed food, clean equipment, and single-use items by wearing:
- Hats
- Hair nets
- Beard Restraints
- Clothing that covers body hair



# **Food Allergens**

# Major Food Allergens The "Big Eight"

- MILK
- EGGS
- FISH, SUCH AS BASS, FLOUNDER, & COD
- WHEAT
- SOYBEANS, SOY
- PEANUTS
- CRUSTACEAN SHELLFISH, SUCH AS CRAB, LOBSTER, & SHRIMP
- TREE NUTS, SUCH AS WALNUTS, ALMONDS & PECANS



### **ALLERGIC REACTION SYMPTOMS**

 Symptoms of an allergic reaction can happen immediately after ingestion or can occur several hours later.

Mild symptoms can become more severe quickly.
 Symptoms could lead to anaphylaxis.

\* If a customer has an allergic reaction, call 911 immediately.



# Possible ALLERGIC REACTION SYMPTOMS

Allergic reaction symptoms may include, but are not limited to:

- Nausea
- Wheezing or shortness of breath
- Hives or itchy rash
- Flushed skin or rash
- Tingling or itchy sensation in the mouth

- Swelling of the throat and vocal cords, face, tongue, lip, eyes, hands, feet, or other parts of the body
- Vomiting and/or diarrhea
- Abdominal Pain
- Coughing or wheezing
- Dizziness and/or lightheadedness
- Difficulty breathing
- Loss of consciousness

CALL 911 if someone presents with symptoms of an allergic reaction



### Preventing Cross-Contact of Allergens

- Check the recipe and ingredient labels to confirm that the allergen is not present
- Wash, rinse, and sanitize food contact surfaces, food prep surfaces, and equipment before prepping the food
- Wash your hands and change your gloves before prepping food.
- Assist consumer in making informed decisions.

- Use separate cooking equipment and cooking oils when frying food for persons with a food allergy.
- Label food packages that are sold on-site with a complete list of ingredients and name all the major allergens on the label.
- Notify customer of allergen presence or possibility of exposure.

# Package Labels

### Food package labels should include:

- 1) Common name
- 2) List of ingredients in order of predominance
- 3) Major allergens contained in the ingredients
- 4) Name/Place of producer or packer
- 5) Made on, Sell by, or Expiration Date
- 6) Quantity or weigh statement

\*No health claims (i.e. "Gluten Free", "Sugar Free", "Fat Free")



# Label Example

#### Snickerdoodle Cookies

Ingredients: All-purpose Flour, Sugar, Butter, Shortening, Eggs, Cream of Tartar, Baking Soda, Salt, Ground Cinnamon

Contains: Eggs, Milk, and Wheat.

Made in a home that contains Peanuts and Tree Nuts.

Made by: FRG Leader Jones

Lightning Ave, Very Tower 5052 Apt 201

Camp Humphreys

This product was home produced and processed.

Made on March 22, 2018

Size: 6 count



# Got questions?



Questions?

Thank you for your time

- Contact Veterinary Food Inspection for approval of TCS food sources at 315-737-2109.
   (On post commissary or EXCHANGE is typically used as approved food source)
- After approval of food sources, contact EH for final approval of food operations.(DD 2970 must be filled and sent to EH)
- Please have approved DD 2970 for person in-charge and Food Handler Certificates for all food handlers (digital copy is ok) available for review and inspection.
- Contact Environmental Health at (315)
   737-1732 / 5703 for additional information.