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| Module - LCES | | |
| **Overview** | | |
|  | **Objective:** Given the video, students will make realistic considerations regarding the adequacy of LCES taking into consideration fire behavior and changing conditions.  **Purpose:** Provide an opportunity to examine the original intent of the LCES and how fire behavior and changing conditions should be taken into consideration when maintaining LCES.  **Method:** Students will watch a video featuring Brad Mayhew and participate in Tactical Decision Game.  **Content**: LCES, featuring Brad Mayhew |  |
| **Facilitator Quick Checklist** | | |
|  | **The following are the most important tasks that should be considered before implementing this module:**   * **Preview the LCES Module on the DVD** * **Preview the LCES animation and 1800 timebox image.** * **Look over Ideas for Talking Points or Discussion for Scenario** * **Decide if you’ll start with the supplemental reading material: “LCES: the original document” (in SW pg 15)** |  |
| **Time** | **Facilitator Tasks** | **Refer**  **To** |
| **1 min** | * hd facilitator **Introduce objectives and method (optional) listed above.** |  |

| **Time** | **Facilitator Tasks** | **Refer**  **To** |
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| **(5 min)** | * hd facilitatorW:\Course Revisions\Refresher 2010\Images\new peeps.bmp **Supplemental Pre-Reading: “LCES: the Original Document”** | **SW** |
| **8 min** | * hd facilitator **Play DVD Module: Is Your LCES Adequate** | **DVD** |
| **2 min** | * W:\Course Revisions\Refresher 2010\Images\new peeps.bmp **Break students into groups of 3 or 4 for exercise.** |  |
| **1 min** | * hd facilitator **Read the following information to the students for TDG Scenario and Conditions:**   **It is late July and you are in Western Montana on the Kootenai National Forest. You are the Engine Boss/ICT5 on a Type 4 Engine (12). You have two firefighters on your crew, one of which is a rookie and the other has 3 solid years of fire experience. Your engine has responded to a smoke report in the Steep Creek area. This fire is a lightning start and is burning in a thick lodgepole stand, with heavy blow down and steep slopes. The fire is located just 400 yards above the road on a southwest aspect and the hike into it takes about twenty minutes. There is an old helispot several hundred yards above the fire. At 1500, when you arrived at the fireline, you called dispatch with your size-up based on the following conditions:**  **Conditions at 1500**  **Temperature……………….…85o**  **RH…………...........................20%**  **Wind Speed and Direction….Calm**  **Sky…………………………..Partly Sunny, 30% cloud cover**  **Slope………………………… 45o**  **Flame lengths……………….1 foot**  **Fire Size…………………….¼ acre** | **SW** |
| **1 min** | * hd facilitator **Click on “Run Exercise” for Assignment #1** | **DVD** |
| **3 min** | * **hd facilitatorRead the following information to students for Assignment #1. Give them 3 minutes to discuss solutions among groups.**   W:\Course Revisions\Refresher 2010\Images\new peeps.bmp Your assignment is to establish a plan to ensure adequate LCES for the current conditions before beginning work on the fire. Take 3 minutes to develop your plan of action and prepare instructions to your crew. | **SW** |
|  | **hd foremanFacilitator’s Notes hd foreman**  **(Do Not Share With Students)**  The dilemma for this TDG is that the player must make a decision on how to establish adequate LCES for this fire. In addition the player must brief his crew with each element of LCES. After discussing the options for LCES in the different groups, move on to Assignment #2, with new conditions. |  |
| **3 min** | * hd facilitatorW:\Course Revisions\Refresher 2010\Images\new peeps.bmp **Facilitate class discussion on solutions…keep in mind, there are no “right” or “wrong” answers.**   **Ideas for Talking Points or Discussion for Scenario**   * *What is considered “on scene”? When you reach the fireline or when you get out of your vehicle?* * *When should LCES first be initiated?*      * *How do you know when to update your LCES?* |  |
|  | * hd facilitator**Click on “Go to 1800” for Assignment #2.** | **DVD** |
| **3 min** | * hd facilitator**Read the following information to the students for TDG Scenario and Conditions for Assignment #2:**   **Now it is 1800 and you have stepped back from your fire to reassess the current conditions. You have a helicopter on scene that has dropped off 3 additional firefighters. The following is what you observe.**  **Conditions at 1500**  **Temperature……………………………………….…….92o**  **RH……………………………………………...……….11%**  **Wind Speed and Direction………Light, upslope, 8-10 SW**  **Sky…………………………………….……Thunderstorms**  **Slope…………………………………………………..…45o**  **Flame lengths…………………………………….......3 foot**  **Fire Size……………………...….1/2 acre with 20x20 spot**  **Resources on Scene………..1 engine with 3crewmembers**  **1helicopter with 3 crewmembers** |  |
| **3 min** | * hd facilitator **Read the following to students. Give the groups 3 minutes to discuss answers.**   W:\Course Revisions\Refresher 2010\Images\new peeps.bmp Your assignment is to reassess your LCES and determine if each element is still adequate. Decide which elements need changed and communicate these changes to the resources on scene. |  |
|  | **hd foremanFacilitator’s Notes hd foreman**  **(Do Not Share With Students)**  The dilemma for this TDG is that the player must make a decision on the adequacy of their LCES. Should they feel that any elements are inadequate; a new decision must be reached and communicated to the resources on scene. |  |
| **3 min** | * hd facilitatorW:\Course Revisions\Refresher 2010\Images\new peeps.bmp **Facilitate class discussion on options. See talking points listed in Facilitator Notes below. Below are some ideas for talking points or discussion on Assignment #2.**   **Ideas for Talking Points or Discussion for Scenario**  *→ How should the helitack crew approach the fire?*  *→ Was there any consideration for using helicopter for a lookout?*  *→ Should aviation resources be used for lookouts?* |  |
| **5 min**  ***Estimate***  ***Total***  ***Time:***  ***34*** | * hd facilitator **Conduct an AAR using the IRPG. Remember to focus on the training objective.** | **IRPG pg xii** |