

**WORKBOOK 10.4: ESTIMATING LIKELIHOOD OF ATTACK ACTIVITY**

**Purpose:** To provide information and a template to help you estimate the likelihood of attack of an identified threat

**Part 1: Estimating Likelihood of Attack****Introduction**

Once you complete the worksheets to identify insider and outsider threats, your next step is to estimate the likelihood of an attack by those threats. You will use the following rating scale to express the likelihood of attack: very low, low, medium, high, and very high.

You will analyze several categories and apply appropriate scoring. You will then complete an Estimating Likelihood of Attack Worksheet for each threat type. To complete the Estimating Likelihood of Attack Worksheet you will need the following information about each adversary:

- Threat type
- Capability
- History and intent
- Relative attractiveness of target

**Estimating Likelihood of Attack Worksheet**

After your facilitator discusses the worksheet categories, you will read another scenario that will help you understand how to complete an estimating likelihood of attack worksheet. You will use the information in this new scenario to complete *Table 1: Estimating Likelihood of Attack Worksheet*.

**Table 1: Estimating Likelihood of Attack Worksheet**

<b>Estimating Likelihood of Attack (L<sub>A</sub>) Worksheet</b>				
Date:		Recorded by:		
Facility identifier:				
<b>Threat type:</b>				
<b>Capability:</b>				
<p>Is the adversary group capable of conducting a successful attack on this facility? To answer the question, consider:</p> <p>Is the adversary group:</p> <p>Located near or able to gain access to the facility?</p> <p>Expected to have the material resources to attack this facility?</p> <p>Expected to have the technical skills to attack this facility?</p> <p>Expected to have the planning and organizational skills to attack this facility?</p>		<p><b>If Yes, continue</b></p> <div style="border: 1px solid black; width: 50px; height: 50px; margin: 0 auto;"></div>	<p><b>If No, L<sub>A</sub> = very low, Stop</b></p>	
<p>Instructions for the following section:</p> <p>Select the answer from the three middle columns that most accurately describes the item contained in the <b>Category</b> column of each row. Note the numeric value associated with that answer and enter the numeric value in the <b>Score</b> column.</p>				
<b>History and Intent:</b>				<b>Score</b>
Category: Historical Interest	<p>If there is documented evidence that historically, this adversary group has shown interest in this type of facility or this specific facility</p> <p>Score = 5</p>	<p>If there is speculation but no evidence that this adversary group has shown interest in this type of facility or this specific facility</p> <p>Score = 3</p>	<p>If there is no evidence that this adversary group has ever shown interest in this type of facility or this specific facility</p> <p>Score = 1</p>	<p><b>Score =</b></p> <div style="border: 1px solid black; width: 50px; height: 50px; margin: 0 auto;"></div>

<b>Estimating Likelihood of Attack (L<sub>A</sub>) Worksheet</b>				
Category: Historical Attacks	If there is documented evidence that historically, this adversary group has conducted similar attacks at this type of facility or this specific facility  Score = 5	If there is speculation but no evidence that this adversary group has conducted similar attacks at this type of facility or this specific facility  Score = 3	If there is no evidence that this adversary group has conducted similar attacks at this type of facility or this specific facility  Score = 1	<b>Score =</b>  <input type="text"/>
Category: Current Interest In Facility	If current information suggests interest in the facility  Score = 10	Not applicable	If there is no current information that suggests interest in the facility  Score = 2	<b>Score =</b>  <input type="text"/>
Category: Current Surveillance	If current intelligence verifies surveillance at the specific site  Score = 10	If current intelligence verifies surveillance at other similar facilities in the country or abroad  Score = 6	If current intelligence does not involve the specific facility, in the country, or abroad  Score = 2	<b>Score =</b>  <input type="text"/>

<b>Estimating Likelihood of Attack (L<sub>A</sub>) Worksheet</b>				
Category: Documented Threats	If this site has received documented threats of attack by this type of threat  Score = 10	If this site has received documented threats of attack, but not of this threat type  Score = 6	If this site has not received documented threats from this threat type or other adversary groups  Score = 2	Score = <input type="text"/>
<b>Relative Attractiveness of Target</b>				Score
Category: Consequence	If level of estimated consequence for attack is consistent with goals of this threat type  Score = 10	If level of estimated consequence caused by attack is not definitely consistent with goals of this threat type but possibility exists  Score = 6	If level of consequence caused by attack is not at all consistent with goals of this threat type  Score = 2	Score = <input type="text"/>
Category: Ideology	If attacking this site is consistent with ideology or motivations of this threat type  Score = 10	If attacking this site is not consistent with ideology or motivations of this threat type, but the possibility exists  Score = 6	If attacking this site is not at all consistent with the ideology or motivations of this adversary group  Score = 2	Score = <input type="text"/>

<b>Estimating Likelihood of Attack (L<sub>A</sub>) Worksheet</b>				
Category: Ease of Attack	If perception exists that physical protection system is relatively easy to defeat or does not exist, or the undesired event is easily accomplished at this site  Score = 5	If perception exists that physical protection system provides moderate protection, or there is moderate difficulty in accomplishing the undesired event at this site  Score = 3	If the perception exists that the site has a robust, effective physical protection system or the undesired event is extremely difficult to accomplish at this site  Score = 1	<b>Score =</b>  <input type="text"/>
<b>Total Score for Threat Type</b>				<b>Total</b>
Write the total of all above scores in this box →				<input type="text"/>
<b>Likelihood of this Threat Type attacking this facility — L<sub>A</sub></b>				
If the total score for this threat type is: ≥ 60, L <sub>A</sub> = Very High ≤ 59 and ≥ 47, L <sub>A</sub> = High ≤ 46 and ≥ 32, L <sub>A</sub> = Medium ≤ 31 and ≥ 19, L <sub>A</sub> = Low ≤ 18, L <sub>A</sub> = Very Low Write threat level based on L <sub>A</sub> score →				<input type="text"/>

### **Threat Type**

The threat type is a description of the adversary and action you are analyzing. You should complete a worksheet for each potential threat type identified in the Insider Threat Information Worksheet and Outsider Threat Information Worksheet. Remember, the threat type is a brief description of the adversary, including the name of the group and the potential action. You should complete a separate worksheet for each group and potential action.

### **Capability**

Once you have established the threat type you are assessing on the worksheet, the first assessment is to determine if the threat type is capable of conducting a successful attack on the target. This is a yes or no determination, considering the following information. Is the adversary threat type:

- Located near or is able to gain access to the facility
- Expected to have the material resources to attack this facility
- Expected to have the technical skills to attack this facility
- Expected to have the planning and organizational skills to attack this facility

If the answer is **Yes** to any of these, you will proceed with the remainder of the worksheet. If the answer is **No** to all of these, then there is no need to continue with the worksheet as the likelihood of an attack is very low.

### **History and Intent**

If the capability assessment determined you should proceed with the worksheet, the next section will help you consider the history and intent of the threat you are assessing. The worksheet contains statements to help you score each area described below. You will read the statements in the worksheet and select the score that applies for each area.

#### *Historical Interest*

Consider whether there is any documented evidence or speculation that this adversary group has shown an interest in this type of facility or this specific facility.

#### *Historical Attacks*

Consider whether there is any documented evidence or speculation that historically, this adversary group has conducted similar attacks at this type of facility or this specific facility.

#### *Current Interest in the Facility*

Consider whether there is any current information suggesting interest in the facility.

*Current Surveillance*

Determine whether current intelligence verifies surveillance at the specific site or other similar facilities in the country or abroad.

*Documented Threats*

Determine whether this site has received documented threats of attack from this adversary threat or similar group.

Relative Attractiveness of Target

You will also consider the relative attractiveness of the threat you are assessing as determined by the level of estimated consequences, ideology, or ease of the attack. The worksheet contains statements to help you score each area described below. You will read the statements in the worksheet and select the score that applies for each area.

*Consequence*

Consider whether the level of estimated consequence for attack is consistent with goals of this threat type.

*Ideology*

Consider whether attacking this site is consistent with ideology and motivations of this threat type.

*Ease of Attack*

Consider what the perception is of the physical protection system in terms of its existence and ease of defeat.

Once you have collected sufficient information, assess the adversary in each category using the descriptions in the worksheet. Record the numeric value in the **Score** column of the worksheet. Once you have determined a score for each area, add up all the scores. Record the sum in the **Total Score for Threat Type**.

Take the **Total Score** and compare it to the scale at the bottom of the worksheet. If the **Total Score** for this threat type is:

- Score of 60 or greater, the likelihood of an attack ( $L_A$ ) is Very High
- Less than or equal to 59 and greater than or equal to 47, the likelihood of an attack ( $L_A$ ) is High
- Less than or equal to 46 and greater than or equal to 32, the likelihood of an attack ( $L_A$ ) is Medium
- Less than or equal to 31 and greater than or equal to 19, the likelihood of an attack ( $L_A$ ) is Low
- 18 or less the likelihood of an attack ( $L_A$ ) is Very Low

<b>Purpose:</b>	To provide an example to help estimate the likelihood of attack of an identified threat
<b>Duration:</b>	25 minutes (20-activity; 5-debrief)
<b>Group composition:</b>	Table groups
<b>Debrief:</b>	Large-group discussion

**Part 2: Activity Directions:**

1. Read the information presented in **Air Force Base Scenario**.
2. Use this information to complete *Table 1: Estimating Likelihood of Attack Worksheet*.
  - The Estimating Likelihood of Attack Worksheet uses a numerical scoring range of 1 to 10, with a “10” determined to be the most critical.
  - Examine each category as you move through the worksheet with your group.
  - Use your training and experience, as well as the information provided in the activity scenario, to apply appropriate scores based on the information listed about each threat type.
  - You may decide to change or modify the listed values for each category, but you should seriously consider and justify any modification to meet the specific requirements.
3. You will have 20 minutes to complete the worksheet.
4. Be prepared to share your score with the class.

**Air Force Base Scenario**

- An organized criminal gang (suspected terrorists) has announced over the past year that they plan to steal valuable government property from Air Force bases.
- This organized gang has actually targeted three Air Force bases in the last month in an adjacent country, and has been successful in stealing vital property. The score would be 5 for historical attacks.
- Law enforcement observed a suspected member of the organized gang near one of your Air Force bases. An attempt to stop and identify the subject was not successful. The local military police were able to identify the subject positively as one of the suspected members.
- Members of the gang returned to your country’s Air Force base. Residents of the base observed them taking pictures of the facility and recording data in a notebook. Local authorities were unable to make contact with the subjects before they left the area.
- The Intelligence Unit for your Air Force reviewed previous intelligence reports and discovered that a similar group, possibly another terrorist cell, had attempted to steal vital equipment from an army post five years ago.
- The vital equipment stolen included state-of-the-art communications equipment and ground radar devices used to detect fighter aircraft.
- Based on intelligence reports, to date, the organized crime gang has not attempted to sell the equipment. Consequently, the Intelligence Unit believes

that the gang may be a terrorist organization, who stated in the past that their goal was to stop fly-overs of their country by your Air Force that, in their minds, represents an enemy country.

- To date, the attacks were not interrupted by the military authorities. The physical protection systems have not been updated in over 15 years and the technology used to protect the vital equipment is in need of maintenance.

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