

**Colorado Division of Fire Prevention & Control  
Hazardous Materials Awareness JPR's (NFPA 472 2013 Edition)**

<b>JPR Number</b>	<b>Task</b>	<b>Initial Certification JPR Requirement: No JPR's at this time  Renewal JPR Requirement: 100% of All JPRs (including all subsections)</b>
1	Hazard Class and Divisions	Mandatory
2	ERG Exercise	Mandatory
3	Written Documentation	Random
4	NFPA 704	Random
5	Criminal / Terrorism / WMD	Random

**Colorado Division of Fire Prevention & Control  
Hazardous Materials Operations JPR's (NFPA 472 2013 Edition)**

<b>JPR Number</b>	<b>Task</b>	<b>Initial Certification JPR Requirement: 2 Mandatory 3 Random  Renewal JPR Requirement: 100% of All JPRs (including all subsections)</b>
1	Emergency Decontamination	Mandatory
2	MSDS	Mandatory
3	Scenario - Fire (Worksheet Attached)	Random
4	Scenario - Spill (Worksheet Attached)	Random
5	Pesticide Label (Worksheet Attached)	Random
6	Donning PPE	Random
7	Foam	Random
8	Defensive Control Actions	Random



# Hazardous Materials Operations

## JPR: HZMT-OPS-1

Candidate: \_\_\_\_\_

<p><b>STANDARD: NFPA 472, 2013 Edition</b></p> <p><b>Section(s): 5.1.2.2 (3); 5.4.1 (4); 5.4.2; 6.2.4.1</b></p> <p><b>Implementing the Planned Response</b></p>	<p><b>Task:</b> Demonstrate the ability to perform emergency decontamination</p>	
<p><b>PERFORMANCE OUTCOME:</b></p>	<p>The candidate will as a member of a team successfully demonstrate the ability to perform emergency decontamination.</p> <p><b>Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.</b></p>	
<p><b>EQUIPMENT REQUIRED:</b> Personal protective equipment, self-contained breathing apparatus (SCBA), water supply, hoses, and product name.</p>		
<p><b>CONDITIONS:</b> Whenever possible, integrate the evaluation of this JPR within a consolidated hazardous materials/WMD incident scenario. This will allow multiple JPR's to be evaluated effectively in conjunction with other hazardous materials/WMD incident scenario activities.</p>		
<p>No.</p>	<p>Task Steps</p>	<p style="text-align: center;">✓</p>
1	Identify the contaminated person.	
2	Remove contaminated person from threatened area.	
3	Immediately begin flushing with copious amounts of water.	
4	Avoid cross contamination	
5	Remove victim to clean area.	
6	Inform medical personnel of contaminant.	
7	Secure Scene / Maintain evidence.	

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**Evaluator (Print & Sign)**

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**Date:**



# Hazardous Materials Operations

## JPR: HZMT-OPS-2

Candidate: \_\_\_\_\_

<p><b>STANDARD: NFPA 472, 2013 Edition</b></p> <p><b>Section(s): 5.2.2 (3)(a)-(j)</b></p> <p><b>Analyzing the Incident</b></p>	<p><b>Task:</b> Given an Material Safety Data Sheet (MSDS) for a specified material, identify the following hazard and response information:</p> <ul style="list-style-type: none"> <li>(a) Physical and chemical characteristics</li> <li>(b) Physical hazards of the material</li> <li>(c) Health hazards of the material</li> <li>(d) Signs and symptoms of exposure</li> <li>(e) Routes of entry</li> <li>(f) Personal exposure limits</li> <li>(g) Manufacturers contact</li> <li>(h) Precautions for safe handling (including hygiene practices, protective measures, and procedures for cleanup of spills and leaks)</li> <li>(i) Applicable control measures, including personal protective equipment</li> <li>(j) Emergency and first-aid procedures</li> </ul>	
<p><b>PERFORMANCE</b> The candidate will complete this task within 30 minutes with a minimum of 18 of 23 items answered correctly.</p> <p><b>OUTCOME:</b> <b>Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.</b></p>		
<p><b>EQUIPMENT REQUIRED:</b> MATERIAL SAFETY DATA SHEET (MSDS) AS PROVIDED BY THE AUTHORITY HAVING JURISDICTION (AHJ)</p>		
<p><b>CONDITIONS:</b> Whenever possible, integrate the evaluation of this JPR within a consolidated hazardous materials/WMD incident scenario. This will allow multiple JPR's to be evaluated effectively in conjunction with other hazardous materials/WMD incident scenario activities.</p>		
No.	Task Steps	✓
1	Physical and chemical characteristics	
	a. Boiling point:	
	b. Specific gravity and/or vapor density:	
	c. Appearance/physical state:	
	d. Odor:	
	e. Flash point:	
	f. Vapor pressure:	
	g. Flammable range:	
	h. Water solubility:	
2	Physical hazards of the material:	
3	Health hazards of the material:	
4	Signs and symptoms of exposure:	

No.	Task Steps	✓
5	Routes of entry:	
6	Personal exposure limits:	
	a. PEL/PEL-C	
	b. TLV/TWA	
	c. STEL	
	d. IDLH	
	e. LD50/LC50	
7	Manufacturer contact:	
8	Precautions for safe handling:	
	a. Hygiene practices:	
	b. Protective measures:	
9	Applicable control measures:	
10	Personal Protective Equipment:	
11	Emergency and first-aid procedures:	

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# Hazardous Materials Operations

## JPR: HZMT-OPS-2 Worksheet

Candidate: \_\_\_\_\_

Given a Material Safety Data Sheet (MSDS), identify the following hazard and response information.

The candidate will complete this task within 30 minutes with a minimum of 18 of 23 items answered correctly.

**1. Physical and chemical characteristics:**

- a. Boiling point \_\_\_\_\_
- b. Specific Gravity and/or Vapor Density \_\_\_\_\_
- c. Appearance / Physical State \_\_\_\_\_
- d. Odor \_\_\_\_\_
- e. Flash point \_\_\_\_\_
- f. Vapor pressure \_\_\_\_\_
- g. Flammable range \_\_\_\_\_
- h. Water Solubility \_\_\_\_\_

**2. Physical hazards of the material:**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**3. Health hazards of the material:**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**4. Signs and symptoms of exposure:**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**5. Routes of entry:**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**6. Permissible exposure limits:**

- a. PEL PEL-C \_\_\_\_\_
- b. TLV / TWA \_\_\_\_\_
- c. STEL \_\_\_\_\_
- d. IDLH \_\_\_\_\_
- e. LD50 / LC50 \_\_\_\_\_

**7. Manufacturer contact:**

\_\_\_\_\_  
\_\_\_\_\_

**8. Precautions for safe handling:**

**a. Hygiene Practices:**

\_\_\_\_\_  
\_\_\_\_\_

**b. Protective measures:**

\_\_\_\_\_  
\_\_\_\_\_

**9. Applicable Control Measures:**

\_\_\_\_\_  
\_\_\_\_\_

**10. Personal Protective Equipment:**

\_\_\_\_\_  
\_\_\_\_\_

**11. Emergency and First-Aid Procedures:**

\_\_\_\_\_  
\_\_\_\_\_

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# Hazardous Materials Operations

## JPR: HZMT-OPS-3

Candidate: \_\_\_\_\_

<p><b>STANDARD: NFPA 472, 2013 Edition</b></p> <p><b>Section(s): 5.2.2; 5.4.2; 6.2.4.1; 6.6.3.1(1)</b></p> <p><b>Analyzing the Incident</b></p>	<p><b>Task:</b> Given an example of a scenario involving known hazardous materials, interpret the hazard and response information obtained from the current edition of the Emergency Response Guidebook (ERG) and a Material Safety Data Sheet (MSDS).</p>	
<p><b>PERFORMANCE OUTCOME:</b> The candidate will complete this task within 30 minutes.</p> <p><b>Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.</b></p>		
<p><b>EQUIPMENT REQUIRED:</b> When Possible utilize MSDS from JPR #2 and current edition of ERG.</p>		
<p><b>CONDITIONS:</b> Whenever possible, integrate the evaluation of this JPR within a consolidated hazardous materials/WMD incident scenario. This will allow multiple JPR's to be evaluated effectively in conjunction with other hazardous materials/WMD incident scenario activities.</p>		
No.	Task Steps - Hazardous Materials Scenario - Involved in fire	✓
1	Initiate incident management system according to National Incident Management System (NIMS)	
2	Container behavior	
3	Material behavior	
4	Product control measures	
5	Describe alternate plan if initial actions are unsuccessful	
6	Describe process to secure the scene and preserve evidence.	

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**Date:**



# Hazardous Materials Operations

## JPR: HZMT-OPS-3 Worksheet

Candidate: \_\_\_\_\_

When Possible utilize MSDS from JPR #2 and current edition of ERG.  
Identify the following hazard and response information.

Hazardous Materials Scenario - Fire Scenario - The  
candidate will complete this task within 30 minutes.

1. Describe Incident Management and Initial actions: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Describe container behavior and its effect on your actions: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

3. Describe the material's behavior and its effect on your actions: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

4. Describe product control measures and needs: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



5. a. Describe alternate plan if initial actions are unsuccessful: \_\_\_\_\_

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b. Describe size of initial isolation or evacuation area: \_\_\_\_\_

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6. Describe process to secure scene and preserve evidence: \_\_\_\_\_

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**Evaluator** (Print & Sign)

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**Date:**



# Hazardous Materials Operations

## JPR: HZMT-OPS-4

Candidate: \_\_\_\_\_

<p><b>STANDARD: NFPA 472, 2013 Edition</b></p> <p><b>Section(s): 5.2.2; 5.4.2; 6.6.3.1(1)</b></p> <p><b>Analyzing the Incident</b></p>	<p><b>Task:</b> Given an example of a scenario involving known hazardous materials, interpret the hazard and response information obtained from the current edition of the Emergency Response Guidebook (ERG) and a Material Safety Data Sheet (MSDS).</p>	
<p><b>PERFORMANCE OUTCOME:</b></p>	<p>The candidate will complete this task within 30 minutes.</p> <p><b>Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.</b></p>	
<p><b>EQUIPMENT REQUIRED:</b> When Possible utilize MSDS from JPR #2 and current edition of ERG.</p>		
<p><b>CONDITIONS:</b> Whenever possible, integrate the evaluation of this JPR within a consolidated hazardous materials/WMD incident scenario. This will allow multiple JPR's to be evaluated effectively in conjunction with other hazardous materials/WMD incident scenario activities.</p>		
No.	Task Steps - Hazardous Materials Scenario - Spill or Leak	✓
1	Initiate incident management system according to National Incident Management System (NIMS)	
2	Container behavior	
3	Material behavior	
4	Product control measures	
5	Describe alternate plan if initial actions are unsuccessful	
6	Describe process to secure the scene and preserve evidence.	

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**Evaluator (Print & Sign)**

\_\_\_\_\_  
**Date:**



# Hazardous Materials Operations

## JPR: HZMT-OPS-4 Worksheet

Candidate: \_\_\_\_\_

When Possible utilize MSDS from JPR #2 and current edition of ERG.  
Identify the following hazard and response information.

Hazardous Materials Scenario - Spill or Leak -  
The candidate will complete this task within 30 minutes.

1. Describe Incident Management and Initial actions: \_\_\_\_\_

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2. Describe container behavior and its effect on your actions: \_\_\_\_\_

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3. Describe the material's behavior and its effect on your actions: \_\_\_\_\_

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4. Describe product control measures and needs: \_\_\_\_\_

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5. a. Describe alternate plan if initial actions are unsuccessful: \_\_\_\_\_

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b. Describe size of initial isolation or evacuation area: \_\_\_\_\_

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6. Describe process to secure scene and preserve evidence: \_\_\_\_\_

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**Evaluator** (Print & Sign)

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**Date:**



# Hazardous Materials Operations

## JPR: HZMT-OPS-5

Candidate: \_\_\_\_\_

<b>STANDARD: NFPA 472, 2013 Edition</b>  <b>Section(s): 5.2.1.3.2(1)-(6)</b>  <b>Analyzing the Incident</b>		<b>Task:</b> : Given a pesticide label, identify each of the following pieces of information; then match the pieces of information to the overall significance in surveying the hazardous materials incident.
<b>PERFORMANCE OUTCOME:</b>		The candidate will complete this task within 15 minutes, with a minimum of 6 of 8 items answered correctly.  <b>Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.</b>
<b>EQUIPMENT REQUIRED:</b> Pesticide Label		
<b>CONDITIONS:</b> Whenever possible, integrate the evaluation of this JPR within a consolidated hazardous materials/WMD incident scenario. This will allow multiple JPR's to be evaluated effectively in conjunction with other hazardous materials/WMD incident scenario activities.		
No.	Task Steps	✓
1	Identify the Product Name:	
2	What does the signal word indicate?	
3	What is the signal word indicating the lowest level of toxicity?	
4	What is the signal word indicating the highest level of toxicity?	
5	Identify the Pest Control Product / EPA Registry Number:	
6	Identify the Precautionary Statement: (Harm to people)	
7	Identify the Hazard Statement: (Environment)	
8	What does the active ingredient do?	

\_\_\_\_\_  
 Evaluator (Print & Sign)

\_\_\_\_\_  
 Date:



# Hazardous Materials Operations

## JPR: HZMT-OPS-5 Worksheet

Candidate: \_\_\_\_\_

**Pesticide Label -**  
The candidate will complete this task within 15 minutes.

1. Identify the product name: \_\_\_\_\_  
\_\_\_\_\_
2. What does the signal word indicate? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
3. What is the signal word indicating the lowest level of toxicity? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
4. What is the signal word indicating the highest level of toxicity? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
5. Identify the Pest Control Product / EPA Registry Number: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
6. Identify the Precautionary Statement: (Harm to people) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
7. Identify the Hazard Statement: (Environment) \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
8. What does the active ingredient do? \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

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Evaluator (Print & Sign)

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Date:



# Hazardous Materials Operations

## JPR: HZMT-OPS-6

Candidate: \_\_\_\_\_

<b>STANDARD: NFPA 472, 2013 Edition</b>  <b>Section(s): 5.4.4; 6.2.4.1 (3)-(4)</b>  <b>Implementing the Planned Response</b>		<b>Task:</b> Demonstrate donning PPE with self-contained breathing apparatus (SCBA), working in, decontamination, and doffing.
<b>PERFORMANCE OUTCOME:</b> The candidate will successfully demonstrate the ability to don, work in and doff PPE.		<b>Safety:</b> A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.
<b>EQUIPMENT REQUIRED:</b> Pesticide Label		
<b>CONDITIONS:</b> Whenever possible, integrate the evaluation of this JPR within a consolidated hazardous materials/WMD incident scenario. This will allow multiple JPR's to be evaluated effectively in conjunction with other hazardous materials/WMD incident scenario activities.		
No.	Task Steps	✓
1	Don structural firefighting gear or chemical protective clothing (Level B).	
2	Process for donning SCBA	
	a. Open cylinder fully.	
	b. Secure straps on SCBA.	
	c. Don face piece.	
	d. Check face seal.	
	e. Hook up air supply.	
3	Work in contaminated area.	
4	Exit contaminated area.	
5	Describe how to perform technical decontamination as part of a team	
6	Doff PPE as provided by AHJ	
7	Complete necessary documentation, as required by AHJ and place all equipment in a ready state for reuse.	

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**Evaluator (Print & Sign)**

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**Date:**



# Hazardous Materials Operations

## JPR: HZMT-OPS-7

Candidate: \_\_\_\_\_

<b>STANDARD: NFPA 472, 2013 Edition</b>  <b>Section(s): 6.6.3.1 (2)(j); 6.6.4.1 (1, 2,3 (J))</b>  <b>Implementing the Planned Response</b>	<b>Task:</b> Using the type of fire-fighting foam or vapor suppressing agent and foam equipment furnished by the authority having jurisdiction, demonstrate the proper application of the fire-fighting foam(s) or vapor suppressing agent(s) on a simulated spill or fire involving hazardous materials	
<b>PERFORMANCE OUTCOME:</b>	The candidate will successfully demonstrate each ability identified within this JPR.  <b>Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.</b>	
<b>EQUIPMENT REQUIRED:</b> Fire-fighting foam or vapor suppression agent, foam equipment, fire apparatus, hazardous liquid, and burn area. Full protective clothing and self contained breathing apparatus (SCBA).		
<b>CONDITIONS:</b> Whenever possible, integrate the evaluation of this JPR within a consolidated hazardous materials/WMD incident scenario. This will allow multiple JPR's to be evaluated effectively in conjunction with other hazardous materials/WMD incident scenario activities.		
No.	Task Steps	✓
1	Approach the spill or fire from uphill and upwind.	
2	Set nozzle to correct pattern (and GPM flow, if applicable).	
3	Use correct application procedures to effectively control vapors or fire	
	a. Banked down.	
	b. Roll on.	
	c. Rain down	
4	Did not disturb the foam blanket.	
5	Safely exited the hazardous area.	

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**Evaluator (Print & Sign)**

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**Date:**





# Hazardous Materials Operations

## JPR: HZMT-OPS-8

Candidate: \_\_\_\_\_

<p><b>STANDARD: NFPA 472, 2013 Edition</b></p> <p><b>Section(s): 6.6.3.1 (1), (2a), (2c-i); 6.6.4.1 (3a), (3c-i)</b></p> <p><b>Product Control</b></p>	<p><b>Task:</b> Given the appropriate tools and equipment, demonstrate how to perform the following defensive control activities:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 50%;">a. Absorption</td> <td style="width: 50%;">e. Diversion</td> </tr> <tr> <td>b. Damming</td> <td>f. Retention</td> </tr> <tr> <td>c. Diking</td> <td>g. Vapor Dispersion</td> </tr> <tr> <td>d. Dilution</td> <td>h. Remote valve shut-off</td> </tr> </table>	a. Absorption	e. Diversion	b. Damming	f. Retention	c. Diking	g. Vapor Dispersion	d. Dilution	h. Remote valve shut-off
a. Absorption	e. Diversion								
b. Damming	f. Retention								
c. Diking	g. Vapor Dispersion								
d. Dilution	h. Remote valve shut-off								
<p><b>PERFORMANCE OUTCOME:</b> The candidate will as a member of a team, successfully demonstrate each ability identified within the checklist with at least 24 of 30 items completed correctly.</p> <p><b>Safety: A safety violation is grounds for automatic failure. All proctors present shall review the safety violation.</b></p>									
<p><b>EQUIPMENT REQUIRED:</b> Personal protective equipment, self-contained breathing apparatus (SCBA), shovels, rakes, absorbent materials, dirt, sand or hay, plastic sheeting, and a leaking container.</p>									
<p><b>CONDITIONS:</b> Whenever possible, integrate the evaluation of this JPR within a consolidated hazardous materials/WMD incident scenario. This will allow multiple JPR's to be evaluated effectively in conjunction with other hazardous materials/WMD incident scenario activities.</p>									
No.	Task Steps	✓							
1	Absorption:								
	a. Use common, available materials.								
	b. Avoid contact with the hazardous material.								
	c. Ensure drains do not become contaminated.								
	d. Ensure hazardous material is absorbed into absorbent material.								
2	Damming: (Overflow and Underflow)								
	a. Use common, available materials.								
	b. Avoid contact with the hazardous material.								
	c. Ensure dam is not breached.								
3	Diking:								
	a. Use common, available materials.								
	b. Avoid contact with the hazardous material.								
	c. Form a "v" and a "circle" dike.								
	d. Ensure hazardous material does not enter drains or manholes.								

No.	Task Steps	✓
4	Dilution	
	a. Use common, available materials.	
	b. Avoid contact with the hazardous material.	
	c. Ensure the hazardous material is water soluble.	
	d. Do NOT overflow retention pond of hazardous material.	
5	Diversion:	
	a. Use common, available materials.	
	b. Avoid contact with the hazardous material.	
	c. Ensure hazardous material is diverted away from drains and waterways.	
	d. Make sure the hazardous material does NOT breach the diversion.	
6	Retention:	
	a. Define the purpose of retention.	
	b. Use common, available materials.	
	c. Avoid contact with the hazardous material	
	d. Ensure product flow does not exceed retention area.	
7	Vapor Dispersion:	
	a. Avoid contact with the hazardous material.	
	b. Eliminate ignition sources, if applicable.	
	c. Use water spray or fans to control dispersion.	
	d. Move vapors away from threatened area.	
8	Remote valve shut-off:	
	a. Avoid contact with the hazardous material.	
	b. Eliminate ignition sources, if applicable.	
	c. Manipulate valve as instructed to control the flow of the product.	

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**Evaluator (Print & Sign)**


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**Date:**