A Publication of the **National Wildfire Coordinating Group** 

#### **NWCG Task Book for the Positions of:**



# FIRE EFFECTS MONITOR (FEMO)

# FIELD OBSERVER (FOBS)

## (POSITION PERFORMANCE REQUIRED ON A WILDFIRE OR PRESCRIBED FIRE ASSIGNMENT)

PMS 311-30 SEPTEMBER 2012

Task Book Assigned To:	
Trainee's Name:	_
Home Unit/Agency:	_
Home Unit Phone Number:	_
Task Book Initiated By:	
Official's Name:	_
Home Unit Title:	_
Home Unit/Agency:	_
Home Unit Phone Number:	_
Home Unit Address:	_
Date Initiated:	_

The material contained in this book accurately defines the performance expected of the position for which it was developed. This task book is approved for use as a position qualification document in accordance with the instructions contained herein.

## Verification/Certification of Completed Task Book for the Position of:

## FIRE EFFECTS MONITOR

To be completed <b>ONLY</b> when you are recommen	nding the trainee for certification
I verify that (trainee name)	position listed above and should be
Final Evaluator's Signature:	
Final Evaluator's Printed Name:	
Home Unit Title:	
Home Unit/Agency:	
Home Unit Phone Number:	Date:
Agency Certific	ation
I certify that (trainee name)	has met all that such qualification has been issued
Certifying Official's Signature:	
Certifying Official's Printed Name:	
Title:	
Home Unit/Agency:	
Home Unit Phone Number:	Date:

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## Verification/Certification of Completed Task Book for the Position of:

### FIELD OBSERVER

## Final Evaluator's Verification To be completed **ONLY** when you are recommending the trainee for certification. has successfully I verify that (trainee name) performed as a trainee by demonstrating all tasks for the position listed above and should be considered for certification in this position. All tasks are documented with appropriate initials. Final Evaluator's Signature: Final Evaluator's Printed Name: Home Unit Title: Home Unit/Agency: Home Unit Phone Number: \_\_\_\_\_ Date: \_\_\_\_\_ **Agency Certification** I certify that (trainee name) \_\_\_\_\_\_ has met all requirements for qualification in the above position and that such qualification has been issued. Certifying Official's Signature: Certifying Official's Printed Name: Title: \_\_\_\_\_ Home Unit/Agency: Home Unit Phone Number: \_\_\_\_\_ Date: \_\_\_\_

## NATIONAL WILDFIRE COORDINATING GROUP (NWCG) POSITION TASK BOOK

NWCG Position Task Books (PTBs) have been developed for designated National Interagency Incident Management System (NIIMS) positions. Each PTB lists the competencies, behaviors and tasks required for successful performance in specific positions. Trainees must be observed completing all tasks and show knowledge and competency in their performance during the completion of this PTB.

Trainees are evaluated during this process by qualified evaluators, and the trainee's performance is documented in the PTB for each task by the evaluator's initials and date of completion. An Evaluation Record will be completed by all evaluators documenting the trainee's progress after each evaluation opportunity.

Successful performance of all tasks, as observed and recorded by an evaluator, will result in a recommendation to the agency that the trainee be certified in that position. Evaluation and confirmation of the trainee's performance while completing all tasks may occur on one or more training assignments and may involve more than one evaluator during any opportunity.

#### INCIDENT/EVENT CODING

Each task has a code associated with the type of training assignment where the task may be completed. The codes are: O = other, I = incident, W = wildfire, RX = prescribed fire, W/RX = wildfire RX = prescribed fire and R = rare event. The codes are defined as:

- O = Task can be completed in any situation (classroom, simulation, daily job, incident, prescribed fire, etc.).
- I = Task must be performed on an incident managed under the Incident Command System (ICS). Examples include wildland fire, structural fire, oil spill, search and rescue, hazardous material, and an emergency or non-emergency (planned or unplanned) event.
- W = Task must be performed on a wildfire incident.
- RX = Task must be performed on a prescribed fire incident.
- W/RX = Task must be performed on a wildfire OR prescribed fire incident.
- R = Rare events such as accidents, injuries, vehicle or aircraft crashes occur infrequently and opportunities to evaluate performance in a real setting are limited. The evaluator should determine, through interview, if the trainee would be able to perform the task in a real situation.

While tasks can be performed in any situation, they must be evaluated on the specific type of incident/event for which they are coded. For example, tasks coded W must be evaluated on a wildfire; tasks coded RX must be evaluated on prescribed fire and so on. Performance of any task on other than the designated assignment is not valid for qualification.

Tasks within the PTB are numbered sequentially; however, the numbering does NOT indicate the order in which the tasks need to be performed or evaluated.

The bullets under each numbered task are examples or indicators of items or actions related to the task. The purpose of the bullets is to assist the evaluator in evaluating the trainee; the bullets are not all-inclusive. Evaluate and initial ONLY the numbered tasks. DO NOT evaluate and initial each individual bullet.

A more detailed description of this process and definitions of terms are included in the *Wildland Fire Qualification System Guide*, PMS 310-1. This document can be found at https://www.nwcg.gov/publications/310-1.

#### RESPONSIBILITIES

The responsibilities of the Home Unit/Agency, Trainee, Coach, Training Specialist, Evaluator, Final Evaluator and Certifying Official are identified in the *Wildland Fire Qualification System Guide*, PMS 310-1. It is incumbent upon each of these individuals to ensure their responsibilities are met.

#### INSTRUCTIONS FOR THE POSITION TASK BOOK EVALUATION RECORD

#### **Evaluation Record #**

Each evaluator will need to complete an evaluation record. Each evaluation record should be numbered sequentially. Place this number at the top of the evaluation record page and also use it in the column labeled "Evaluation Record #" for each numbered task the trainee has satisfactorily performed.

#### **Trainee Information**

Print the trainee's name, position on the incident/event, home unit/agency, and the home unit/agency address and phone number.

#### **Evaluator Information**

Print the Evaluator's name, position on the incident/event, home unit/agency, and the home unit/agency address and phone number.

#### **Incident/Event Information**

**Incident/Event Name:** Print the incident/event name. **Reference:** Enter the incident code and/or fire code.

**Duration:** Enter inclusive dates during which the trainee was evaluated.

**Incident Kind:** Enter the kind of incident (wildfire, prescribed fire, search and rescue, flood,

hurricane, etc.).

**Location:** Enter the geographic area, agency, and state.

**Management Type or Prescribed Fire Complexity Level:** Circle the ICS organization level (Type 5, Type 4, Type 3, Type 2, Type 1, Area Command) <u>or</u> the prescribed fire complexity level (Low, Moderate, High).

**Fire Behavior Prediction System (FBPS) Fuel Model Group:** Circle the Fuel Model Group letter that corresponds to the predominant fuel type in which the incident/event occurred.

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G = Grass Group (includes FBPS Fuel Models 1 – 3):
1 = short grass (1 foot); 2 = timber with grass understory; 3 = tall grass (1½ - 2 feet)

B = Brush Group (includes FBPS Fuel Models 4 – 6):
4 = Chaparral (6 feet); 5 = Brush (2 feet); 6 = dormant brush/hardwood slash;
7 = Southern rough

T = Timber Group (includes FBPS Fuel Models 8 – 10)
8 = closed timber litter; 9 = hardwood litter; 10 = timber (with litter understory)

S = Slash Group (includes FBPS Fuel Models 11 – 13)
11 = light logging slash; 12 = medium logging slash; 13 = heavy logging slash
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#### **Evaluator's Recommendation**

For 1-4, initial only one line as appropriate; this will allow for comparison with your initials in the Qualifications Record.

Record additional remarks/recommendations on an Individual Performance Evaluation, or by attaching an additional sheet to the evaluation record.

#### **Evaluator's Signature**

Sign here to authenticate your recommendations.

#### **Date**

Document the date the Evaluation Record is being completed.

#### **Evaluator's Relevant Qualification (or agency certification)**

List your qualification or certification relevant to the trainee position you supervised. **Note:** Evaluators must be either qualified in the position being evaluated or supervise the trainee; Final Evaluators must be qualified in the trainee position they are evaluating.

This task book contains the tasks for both Fire Effects Monitor (FEMO) and Field Observer (FOBS). The common tasks for both positions are listed first. The tasks only need to be completed once. The tasks specific to each position are listed following the common tasks. The FEMO and FOBS PTBs can be initiated at the same time; the tasks can be completed simultaneously. A Verification/Certification page is included in this PTB for each position.

Common Tasks for FEMO & FOBS pages 7 – 13 (Tasks 1 – 19) FEMO Specific Tasks pages 14-15 (Tasks 20-22) FOBS Specific Tasks page 16 (Tasks 23 – 24)

### Competency: Assume position responsibilities.

Description: Successfully assume role of Fire Effects Monitor and/or Field Observer and initiate position activities at the appropriate time according to the following behaviors.

TASK	C O D E	EVAL. RECORD #	EVALUATOR: Initial & date upon completion of task
Behavior: Ensure readiness for assignment.			
<ol> <li>Obtain and assemble information and materials for kit.</li> <li>Belt weather kit</li> <li>Ruler/scale</li> <li>Global Positioning System (GPS) with comcable</li> <li>Compass</li> <li>Calculator</li> <li>PMS 461, Incident Response Pocket Guide</li> <li>PMS 410-1, Fireline Handbook</li> </ol>	puter		
<ul> <li>2. Obtain complete information from dispatch upon assignment.</li> <li>• Incident name</li> <li>• Incident order number</li> <li>• Request number</li> <li>• Incident phone number</li> <li>• Reporting time</li> <li>• Reporting location</li> <li>• Transportation arrangements/travel routes</li> <li>• Contact procedures during travel (telephone/radio)</li> <li>• Current situation</li> <li>• Authorization for use of equipment (laptop rental vehicle)</li> </ul>	7		

TASK	C O D E	EVAL. RECORD #	EVALUATOR: Initial & date upon completion of task
<ul> <li>Arrive at incident and check in.</li> <li>Arrive properly equipped at assigned location within acceptable time limits.</li> <li>Notify dispatch of any time delays.</li> </ul>	I		
Behavior: Ensure availability, qualifications, and ca assignment.	pabilitie	s of resource	es to complete
<ul> <li>4. Obtain appropriate work materials, supplies, and equipment to complete assignment.</li> <li>• Order supplies and equipment using established procedures.</li> </ul>	I		
Behavior: Gather, update, and apply situational info	rmation	relevant to	the assignment.
<ul> <li>5. Obtain initial briefing from assignment supervisor.</li> <li>• Organizational structure</li> <li>• Weather</li> <li>• Fire behavior</li> <li>• Communications</li> <li>• Resources</li> <li>• Safety</li> </ul>	I		
<ul> <li>6. Review agency wildland fire procedures, policies and regulations related to position.</li> <li>• Read appropriate agency manuals and handbooks.</li> <li>• Review recent changes in agency/interagency policies and directives related to position responsibilities.</li> </ul>	0		
Behavior: Establish effective relationships with relev	vant per	sonnel.	
<ul> <li>7. Conduct self in a professional manner.</li> <li>• Respectful and courteous.</li> <li>• Respectful of public and private property.</li> </ul>	I		
8. Establish and maintain positive interpersonal and interagency working relationships.	I		

 $\label{lem:continuity} Evaluate\ the\ numbered\ tasks\ ONLY.\ DO\ NOT\ evaluate\ bullets;\ they\ are\ provided\ as\ examples/additional\ clarification.$ 

TASK  Behavior: Understand and comply with ICS concept	C O D E	EVAL. RECORD #	EVALUATOR: Initial & date upon completion of task
<ul> <li>9. Apply the ICS.</li> <li>• Identify and contact assigned supervisor</li> <li>• Follow chain of command.</li> <li>• Maintain appropriate span of control.</li> <li>• Use appropriate ICS forms.</li> <li>• Use appropriate ICS terminology.</li> </ul>	I		

**Competency:** Communicate effectively. *Description: Use suitable communication techniques to share relevant information with appropriate personnel on a timely basis to accomplish objectives in a rapidly changing, high-risk environment.* 

TASK	C O D E	EVAL. RECORD #	EVALUATOR: Initial & date upon completion of task
Behavior: Ensure documentation is complete and di	sposition	ı is appropr	iate.
<ul> <li>10. Provide monitoring summary for assigned area.</li> <li>Compare observed fire behavior and effects, with planned or anticipated effects.</li> <li>Describe in narrative format how well wildland fire objectives were met.</li> </ul>	W/RX		
Behavior: Gather, produce and distribute information guidelines and ensure understanding by recipient.	on as rec	quired by es	tablished
<ul> <li>11. Recon project or assigned area and plot the project area and/or fire perimeter on a map. Review maps and overlays of reported data to ensure accuracy.</li> <li>Record geographical and topographical features (e.g., roads, fuel breaks, improvements, hazards).</li> <li>Determine and record incident perimeter and identify potential changes.</li> <li>Identify and map values potentially affected by fire or fire operations.</li> </ul>	W/RX		
<ul> <li>12. Communicate effectively with supervisor, fire operations staff, and as appropriate, crew members and adjoining resources.</li> <li>• Advise supervisor of progress and results, equipment problems, safety of assigned personnel.</li> <li>• Request assistance to meet monitoring or observation objectives.</li> <li>• Advise crew members of potential or impending safety hazards.</li> <li>• Inform crew members of appropriate mitigation actions (e.g., posting of lookouts, identification of safety zones and escape routes).</li> </ul>	W/RX		

## Competency: Ensure completion of assigned actions to meet identified objectives.

Description: Identify, analyze, and apply relevant situational information and evaluate actions to complete assignments safely and meet identified objectives. Complete actions within established timeframe.

TASK	C O D E	EVAL. RECORD #	EVALUATOR: Initial & date upon completion of task
Behavior: Gather, analyze, and validate information and make recommendations for setting priorities.	n pertine	ent to the inc	ident or event
<ul> <li>13. Review the project objectives, monitoring plan or management objectives as appropriate. Communicate concerns to supervisor.</li> <li>• Components for monitoring standards, timeliness, and available resources.</li> <li>• Expected sampling intensity, required documentation with respect to fire behavior, and expected fire effects.</li> <li>• Relationship of the prescription factors, project objectives, and monitoring plan.</li> <li>• Relationship of the management objectives, fire effects and data collection.</li> <li>• Potential safety hazards as they relate to the collection of data.</li> <li>• Smoke management requirements.</li> </ul>	W/RX		
<ul> <li>14. Monitor, obtain, and record weather data.</li> <li>Recognize the differences among general, local and convective winds on a fire management operation.</li> <li>Identify, observe and record appropriate weather data such as mid-flame wind speed, wind direction, relative humidity and other characteristics that influence fire behavior.</li> <li>Document rationale for selection of suitable weather sampling site(s).</li> </ul>	W/RX		

TASK	C O D E	EVAL. RECORD #	EVALUATOR: Initial & date upon completion of task
<ul> <li>15. Monitor and record fire behavior data throughout the fire management operation.</li> <li>Observe and record appropriate fire behavior characteristics, such as rate of spread, flame length, residence time.</li> <li>Characterize and report the range of variability of first order fire effects due to changes in fire behavior.</li> </ul>	W/RX		
<ul> <li>16. Monitor and record smoke management information.</li> <li>Recognize and report visibility problems.</li> <li>Maintain communications with the local air quality contacts, National Weather Service, weather observers, lookouts.</li> <li>Identify smoke characteristics, including inversions, wind sheared columns, direction of smoke flow, and smoke impacts to sensitive sites.</li> </ul>	W/RX		
Behavior: Prepare clear and concise assessments re weather, and other relevant events.	garding	hazards, haz	zard behavior,
<ul> <li>17. Recognize and report atmospheric characteristics that influence fire behavior.</li> <li>Fire whirls, their causes, and associated fire control problems.</li> <li>Winds associated with thunderstorm cells and their effect on fire behavior.</li> <li>Wind speed changes and direction shifts associated with cold front passage and the effects on fire behavior.</li> <li>Other indications of an unstable atmosphere.</li> </ul>	W/RX		

TASK	C O D E	EVAL. RECORD #	EVALUATOR: Initial & date upon completion of task
Behavior: Follow established procedures and/or saf assignment.	ety proce	edures relev	ant to given
<ul> <li>18. Conduct monitoring and observation operations according to the Standard Fire Orders, Watch Out Situations, and LCES (Lookouts, Communications, Escape Routes, Safety Zones) principles.</li> <li>• Location of established safety zones and escape routes.</li> <li>• Fire behavior and safety hazards which endanger personnel.</li> </ul>	W/RX		
Behavior: Plan for demobilization and ensure demo	bilizatio	n procedure	s are followed.
<ul> <li>19. Demobilize and check out.</li> <li>Receive demobilization instructions from incident supervisor.</li> <li>If required, complete ICS 221, Demobilization Checkout and submit completed form to the appropriate person.</li> </ul>	I		

## **FEMO Specific Tasks**

## **Competency: Communicate effectively.**

TASK  Behavior: Ensure relevant information is exchanged	C O D E	EVAL. RECORD # briefings an	EVALUATOR: Initial & date upon completion of task d debriefings.
20. Identify the roles and responsibilities of the Fire Effects Monitor on the incident.	W/RX		
Behavior: Ensure documentation is complete and di	sposition	ı is appropr	iate.
<ul> <li>21. Document first order fire effects related to fire treatment or management objectives and constraints.</li> <li>• Burn pattern</li> <li>• Fuel loadings and consumption</li> <li>• Burn severity</li> <li>• Plant mortality</li> <li>• Scorch height</li> <li>• Depth of burn</li> <li>• Hydrophobicity</li> <li>• Air quality</li> <li>• Water quality</li> <li>• Property damage</li> </ul>	W/RX		

## **FEMO Specific Tasks**

# Competency: Ensure completion of assigned actions to meet identified objectives.

TASK	C O D E	EVAL. RECORD #	EVALUATOR: Initial & date upon completion of task
Behavior: Gather, analyze, and validate information and make recommendations for setting priorities.	n pertine	nt to the inc	ident or event
<ul> <li>22. Collect appropriate fuel, soil, and vegetation samples for moisture analysis.</li> <li>Observe and record topographic and vegetation feature influence fuel moistures (e.g., slope, aspect, shading, canopy cover, tree height).</li> </ul>	W/RX		

## **FOBS Specific Tasks**

**Competency: Communicate effectively.** 

TASK	C O D E	EVAL. RECORD #	EVALUATOR: Initial & date upon completion of task
Behavior: Communicate and ensure understanding of command and across functional areas.	of work	expectations	s within the chain
<ul> <li>23. Contact and coordinate with appropriate personnel.</li> <li>Contact and coordinate with Division/Group Supervisor when entering or leaving a division/group.</li> <li>Validate existing products with key personnel (e.g., Geographical Information System Specialist (GISS), Operations Section Chief).</li> </ul>	I		

## Competency: Ensure completion of assigned actions to meet identified objectives.

TASK  Behavior: Transfer position duties while ensuring coand taking into account the increasing or decreasing	v	
<ul> <li>24. Coordinate an efficient transfer of position duties when mobilizing/demobilizing (e.g., incoming Incident Management Team (IMT), host agency).</li> <li>• Inform subordinate staff and IC.</li> <li>• Document follow-up action needed and submit to supervisor.</li> <li>• Submit all required documentation</li> <li>• Brief replacement.</li> </ul>	I	

	Evaluation Record #
	Trainee Information
Printed Name:	
Trainee Position on Incident/Event:	
Home Unit/Agency:	
Home Unit /Agency Address and Pho	one Number:
	Evaluator Information
Printed Name:	
Evaluator Position on Incident/Event:	
Home Unit/Agency:	
Home Unit /Agency Address and Pho	one Number:
	Incident/Event Information
Incident/Event Name:	Reference (Incident Number/Fire Code):
Duration:	
Incident Kind: Wildfire, Prescribed F	Fire, All Hazard, Other (specify):
Location (include Geographic Area, A	Agency, and State):
Management Type (circle one): Type OR Prescribed Fire Complexity Level	e 5, Type 4, Type 3, Type 2, Type 1, Area Command I (circle one): Low, Moderate, High
FBPS Fuel Model Letter: G = Grass,	B = Brush, T = Timber, S = Slash
	<b>Evaluator's Recommendation</b> (Initial only one line as appropriate)
a satisfactory manner. The tra	ed by me on the Qualification Record have been performed under my supervision in ninee has successfully performed all tasks in the PTB for the position. I have r's Verification section and recommend the trainee be considered for agency
a satisfactory manner. Howev	ed by me on the Qualification Record have been performed under my supervision in ver, opportunities were not available for all tasks (or all uncompleted tasks) to be his assignment. An additional assignment is needed to complete the evaluation.

Evaluator's Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Date: \_\_\_\_\_

Record additional remarks/recommendations on an Individual Performance Evaluation, or by attaching an additional

\_\_\_\_\_ 3) The trainee did not complete certain tasks in the PTB in a satisfactory manner and additional training,

training, guidance, or experience is recommended prior to another training assignment.

4) The individual is severely deficient in the performance of tasks in the PTB for the position and additional

guidance, or experience is recommended.

sheet to the evaluation record.

	Evaluation Record #
	Trainee Information
Printed Name:	
Trainee Position on Incident/Event:	
Home Unit/Agency:	
Home Unit /Agency Address and Phon	e Number:
	Evaluator Information
Printed Name:	
Evaluator Position on Incident/Event:	
Home Unit/Agency:	
Home Unit /Agency Address and Phon	e Number:
	Incident/Event Information
Incident/Event Name:	Reference (Incident Number/Fire Code):
Duration:	
Incident Kind: Wildfire, Prescribed Fin	re, All Hazard, Other (specify):
Location (include Geographic Area, Ag	gency, and State):
Management Type (circle one): Type 5 <u>OR</u> Prescribed Fire Complexity Level (	5, Type 4, Type 3, Type 2, Type 1, Area Command (circle one): Low, Moderate, High
FBPS Fuel Model Letter: G = Grass, 1	B = Brush, T = Timber, S = Slash
	Evaluator's Recommendation (Initial only one line as appropriate)
a satisfactory manner. The train	I by me on the Qualification Record have been performed under my supervision in nee has successfully performed all tasks in the PTB for the position. I have is Verification section and recommend the trainee be considered for agency
a satisfactory manner. Howeve	I by me on the Qualification Record have been performed under my supervision in or, opportunities were not available for all tasks (or all uncompleted tasks) to be is assignment. An additional assignment is needed to complete the evaluation.

Evaluator's Signature: \_\_\_\_\_ Date: \_\_\_\_\_ Date: \_\_\_\_\_

\_\_\_\_\_ 3) The trainee did not complete certain tasks in the PTB in a satisfactory manner and additional training,

Record additional remarks/recommendations on an Individual Performance Evaluation, or by attaching an additional

training, guidance, or experience is recommended prior to another training assignment.

4) The individual is severely deficient in the performance of tasks in the PTB for the position and additional

guidance, or experience is recommended.

sheet to the evaluation record.