

> Denotes revised material in this JPM

**JOB PERFORMANCE MEASURE**

**TASK CODE:** CFO-129

**TASK:** >Operate an Alpha Laboratory Counter (SAC-4)

**NAME:** \_\_\_\_\_ **>BADGE:** \_\_\_\_\_

**REFERENCES:** >Only references for knowledge items are listed here. The trainee is expected to identify the correct references for practical items .

- >1. WP 12-HP1300, Radiological Monitoring Equipment
- >2. WP 12HP-1100, Radiological Surveys
- >3. WP 12HP-3500, Airborne Radioactivity
- >4. Eberline SAC-4 Alpha Counter Technical Manual

**TERMINAL OBJECTIVE:**

>Given an air sample or a smear that needs to be counted, perform pre-operational, QA checks and operate the alpha laboratory counter (SAC-4) per WP 12-HP1300, WP 12HP-1100 and WP 12HP-3500.

**CONSEQUENCES OF INADEQUATE PERFORMANCE:**

Improper survey results

**HAZARDS (PERSONNEL/EQUIPMENT STATUS):**

>Personnel contamination

**PRE-REQUISITE TRAINING/ TASK COMPLETION:**

- 1. CL 1.00 Series
- >2. CL 2.19, Laboratory Counting Equipment
- 3. CFO-156, Control Radioactive Sources

**TOOLS/EQUIPMENT (MATERIALS REQUIRED):**

- 1. Appropriate Instrumentation (SAC-4)
- 2. Pu239 source
- >3. QA check sheet

**Instructions to Trainee:** You shall acquire the necessary references and equipment, and complete all required

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documentation. Knowledge requirements shall be completed with 80% or greater accuracy. Critical step performance shall be completed with 100% accuracy.

**Instructions to JPM Evaluator:** The trainee is to perform the terminal objective, without assistance, on the job site. Provide clarification of requirements if requested by the trainee. You are encouraged to ask relevant questions to verify trainee understanding. If the trainee fails this JPM, clearly document the reason for failure and forward to the trainee's manager. Successful completion of this JPM shall be recorded on the trainee's qualification card.

**>On performance items, if there is more than one means available to accomplish the step, circle the method used. Refer to the RCT-01 Qualification Standard for preference of use.**

**KNOWLEDGE REQUIREMENTS:**

Reference	Knowledge Requirement	Pass/Fail
1, 4	Describe the basic operation of an alpha laboratory counter.	
1	State your actions if the alpha laboratory counter fails the operability check.	
1, 2, 3	State the types of samples that can be counted using an alpha laboratory counter.	

**PERFORMANCE REQUIREMENTS:**

>Method	Performance Requirement	Pass/Fail
P	Verify the current calibration status of the instrument. #	
P	Perform a physical inspection of the instrument. #	
P	Perform a source check of the instrument. #	
P, S	Count an air sample using the alpha laboratory counter. #	
P, S	Count a smear using the alpha laboratory counter. #	
P, S	Complete the required documentation. #	

# indicates a critical step

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**FINAL EVALUATION:**

PASS

FAIL

**COMMENTS:**

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**EVALUATOR SIGNATURE:**

\_\_\_\_\_ **DATE:** \_\_\_\_\_

**TRAINEE SIGNATURE:**

\_\_\_\_\_ **DATE:** \_\_\_\_\_

**MANAGER SIGNATURE:**

\_\_\_\_\_ **DATE:** \_\_\_\_\_