

Multi-State Advanced Manufacturing Consortium

US DOL SPONSORED TAACCCT GRANT: TC23767

MSAMC Master Performance Based Objectives (PBO) Review Template

Instructions

The following tab lists PBOs for the topic areas *Preventive Maintenance*. Please review each of the PBOs, and rate each PBO with one of the following ratings:

 $1 = \text{Skill or understanding is required for students.} \\ 2 = \text{Skill is useful, but is not crucial for students to know.} \\ 3 = \text{Skill is not useful for students, or isn't relevant for typical work assignments.} \\ 0 = \text{PBO is unclear.}$

Additionally, for each PBO please

* Note any comments or recommendations that you may have about how to improve the PBO.

* Indicate whether each PBO is covered in your college's aligned courses, and how (written, lab demo, exercise).

If any PBOs or skill sets seem to be missing from the list, please add them in the space at the bottom of the list.

Please enter your information below						
Name:						
Institution:						
Date:						
Email:						
Phone:						

20150626_pbo_review_acad_preventive_maintenance

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Preventive Maintenance

M-S AMC Academic Partner PBO Review

Please enter your information below						
Name:						
Institution:						
Date:						
Email:						
Phone:						

Please indicate which course or courses delivered at your institution align with, or cover, the listed objectiv							
Aligned Course(s)	1	Enter course code here					
	2	Enter course code here					
	2	Enter course code here					

* Note: For each covered PBO, indicate in which of the aligned courses, documented at left, the PBO would be most extensively covered. If there is only one course listed to the left, then you do not have to complete the "Aligned Course" column.

Sub-Topic	Level	Topic	PBO ID	Performance Based Objective (PBO)	Importance, 1 = Need 2 = Nice to have 3 = N/A 0 = Don't understand	Covered - Written Assignment / Reading? Y/N	Covered - Exercise or Assessment?	Aligned Course *	Comments Notes to improve the PBO, PBO is unclear, lacking equipment to cover, etc.
	1	PM	1	Identify, Explain, and Demonstrate safe practices when doing general preventative maintenance including common slip hazards, hydraulic system injection hazards, and chemical hazards.					
	1	PM	2	After completing assigned work, students will ensure that the work area is left clean and free of debris, maintenance supplies, parts and tools.					
	1	PM	3	Monitor floor management development system by doing the following: - Maintain neat work area - Replace used tolls and equipment in designated areas - Establish minimum and maximum quantities acceptable for floor area - Maintain recycle and waste segregation - Identify principles of a 55 program					
	1	PM	4	Perform equipment checks, including: - Perform visual Inspection of equipment - Check gagues - Check for abnormal readings and conditions - Verify current readings - Check valve positions, abnormal noises, leaks, and temperatures					
	1	PM	5	Change air and oil filters as prescribed, and demonstrate the proper disposal of used filters.					
	1	PM	6	Maintain oil and grease levels by doing the following: - Check sight glass-hydraulic oils - Check grease canisters - Check air lubricators - Check gear box oils					
	1	PM	7	Collect oil samples for analysis by performing the following steps: - Secure sample collection kit from store room - Clean port before taking sample - Take sample from equipment - Label sample container - Prepare sample for shipment to send to lab for analysis					
	1	PM	8	Interpret oil analysis data and take action by accomplishing the following steps: - Read and interperet oil analysis data - Determine root cause of contamination - Initiate work orders as required - Locate and eliminate source of contamination - Schedule a repair if contaminated					
	1	PM	9	Troubleshoot automatic lubrication systems by: - Identify types of lubrication systems - Identify components of a series type, automatic lube system - Troubleshoot series type, automatic lube system					
	1	PM	10	Using manufacturers' literature/recommendations or other typical plant resources, select the appropriate lubricant for a track.					

1	PM	Using manufacturers' literature/recommendations or other typical plant resources, identify the check frequencies for given equipment.			
1	PM	Given the criticality of a lubed component, failure, repair frequency, and monitoring equipment, estimate the check frequency.			

Additions: Please add any additional objectives that we may have overlooked.										

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