MICROMERITICS OPERATOR TRAINING CHECKLIST for the ASAP 2050 Extended Pressure Adsorption Analyzer

	for the ASAP 2050 Extended P	ressure Adsorption Analyzer
This	Operator Training Checklist was	s reviewed and approved by:
	Director, Quality Assurance	Director, Marketing
	Domestic Service Manager	International Service Manager
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Revision History

REV.	ECN#	DESCRIPTION OF CHANGE	СНК ВҮ	DATE
-	070006	Formal Release		

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Overview

This document contains a checklist to be used for training ASAP 2050 Extended Adsorption Analyzer operators. These instructions reference the **ASAP 2050 Extended Adsorption Analyzer Operator's Manual**, Part number: 205-42801-00, current version.

Orientat	tion	
1.	Online manual shown and discussed.	
2.	Table of Contents and Appendices shown and discussed.	
3.	Equipment description shown and discussed.	
4.	Power up and power down sequence shown and discussed.	
5.	Cable connections shown and discussed.	
6.	Front panel components shown and discussed.	
7.	Side panel components shown and discussed.	
8.	Vacuum pump compartment shown and discussed.	
9.	Menu structure shown and discussed.	
10	. Software usage topics in the User Interface chapter shown and discussed.	
11.	. Trainee allowed time to become familiar with software operation.	
Camarala	and December File Creation	
Sample	and Parameter File Creation	
1.	File menu and sample information file structure shown and discussed.	
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2.	Sample information file creation shown and discussed.	
3.	Sample tube file creation shown and discussed.	
4.	Degas file creation shown and discussed.	
5.	Analysis conditions file creation shown and discussed.	
6.	Report options file creation shown and discussed.	

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Sample	Preparation	
1	Comple type cleaning bandling and assembly sharp and disaussed	
1.	Sample tube cleaning, handling, and assembly shown and discussed.	
2.	Trainee prepared sample tube.	
Sample	Degas	
1.	Filling cold trap Dewar shown and discussed.	
2.	Loading samples onto degas system shown and discussed.	
3.	Trainee loaded sample onto degas system.	
4.	Starting and viewing the degas operation shown and discussed.	
٦.	Starting and viewing the degas operation shown and discussed.	
Sample	e Analysis	
1	Indicators prompts and values shown and discussed	
1.	Indicators, prompts and valves shown and discussed.	
2.	Degassed sample unloading shown and discussed.	
3.	Trainee loaded sample onto analysis system.	
4.	Dewar filling shown and discussed.	
5.	Starting and viewing analysis shown and discussed.	
6.	Effect of alternative analysis conditions discussed.	
7.	Adsorption dosing and equilibration discussed.	
8.	Screen reporting of analysis in progress shown and discussed.	
Analysi	s Reports	
1.	Starting default reports shown and discussed.	
2.	Changing sample file report options shown and discussed.	
3.	Heat of Adsorption report shown and discussed.	
3. 4.	Screen reports shown and discussed.	
5.	Report Subsystem controls shown and discussed.	
3.	Report Subsystem controls shown and discussed.	

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6. Printed reports shown and discussed.

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7.	Overlays shown and discussed.			
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8.	Calculations included in Appendix C sh	nown and discussed.		
Trouble	shooting and Operator Mainte	enance		
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1.	Troubleshooting and Error message sect	tions of manual shown	and discussed.	
2.	Operator Preventive Maintenance shows	n and discussed.		
3.	Elevator screw lubrication discussed.			
4.	Dewar examination discussed.			
5.	Sample tube O-rings replacement shows	n and discussed.		
6.	Analysis and degas port filter replaceme	ent shown and discusse	ed.	
7.	Vacuum pump exhaust filter replacemen	nt discussed.		
8.	Vacuum pump fluid inspection and repla	acement shown and di	scussed.	
9.	Vapor trap alumina replacement discuss	sed.		
10	. Cold trap cleaning discussed.			
11	. Instrument calibrations discussed.			
12	. Instrument cleaning discussed.			
13	. Leak testing discussed.			
14	. Reference material analysis details and a	analysis frequency dis	cussed.	
	0 1 1			
Manual	Control			
1.	Instrument Schematic shown and discus	ssed.		
2.	Manual Control shown and discussed.			
3.	Status Display shown and discussed.			
4.	Degas Control shown and discussed.			
Options	Menu			
1.	Options Menu shown and discussed.			
	Option presentation shown and discussed.	1		
	Sample Defaults programming shown an			
٥.	Zampie zerasio programming bilowii an			

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4.	Data Presentation shown and discussed.			
5.	Parameter files directory shown and discu	ssed.		
Returne	ed Goods and Parts Ordering.			
1.	Returned goods policy shown and discuss	ed		
2.	Parts and accessories ordering shown and	discussed.		
Warrant	y Statement			
1.	Warranty policy shown and discussed.			
Questio	ns			
1.	All questions on operation resolved?		YES	NO
	If NO, use the available space to document the question, then forward to the appropriate personnel at Micromeritics for resolution.			