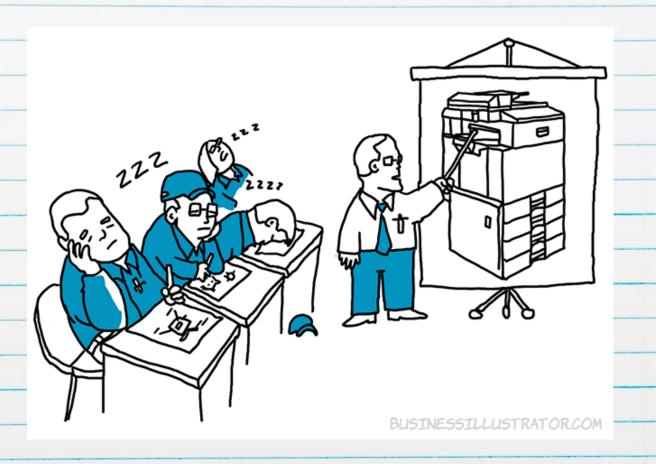


Objectives:

· Why do we need a training program?

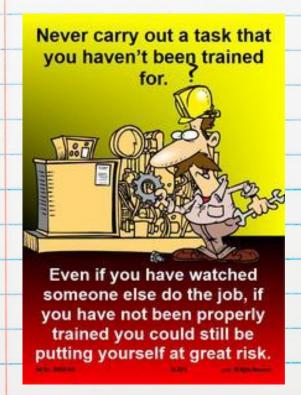
· What should be included?

· How can you use CARB's training program?



"IF IT WASN'T DOCUMENTED

IT WASN'T DONE"





- · Poor job performance
- · Low job satisfaction
- · Safety hazards and injuries
- · Lower customer satisfaction
- · Legal repercussions
 - · Wasted resources high cost/low return

- · WHO will do the training?
 - QFT Qualified Field Trainer
- · WHAT are the trainee's responsibilities?
 - · Be an interactive learner

- · WHO will do the training?
 - · QFT Qualified Field Trainer
 - WHAT are the trainee's responsibilities?
 - · Be an interactive learner
- · WHAT will be covered?
 - · Tasks and timelines



Air Monitoring Field Training Program January 27, 2019 Page **6** of 9

APPENDIX A

AIR MONITORING FIELD TRAINING PROGRAM ACKNOWLEDGEMENT FORM

I have received a copy of the AQSB Field Training Program and have had the opportunity to discuss the training program and my training plan with my manager and trainer.

Employee Signature

Date

<u>APPENDIX B</u> <u>Example Field Training Plan for (Name)</u> Start date:

US EPA and CARB Basic Training

	Course	Expected	Date	Trainer's
		Completion Date	Completed	Initials
• A	P101: Air Academy Online Training (AAOT)	(i.e. within 3 months of start)		-
	P102: Air Quality Training Program (AQTP) - Inline Training			
M	rimary Quality Assurance Organization - lodule 1 (Fundamentals of Air Monitoring and tation Setup and Operation)			
	rimary Quality Assurance Organization - lodule 2 (Data Validation)			
E	PTI RE-100-1: Basic Concepts in nvironmental Sciences - Module 1: Basic oncepts			
	PTI SI-474: Introduction to Environmental tatistics			
• A	PTI SI-409: Basic Air Pollution Meteorology			
• To	our of CARB Facilities (Sacramento) Sacramento T-Street monitoring station Instrument repair shop Stockroom and warehouse Standards laboratory Inorganic and organics laboratories			

			_
General	Field	Training	

Task	Expected Date	Date Completed	Trainer's
Defensive Driver Training (annual requirement)			
Heat Illness Prevention Training (annual requirement)			
Climbing and Safety Training (initial and annual refresher required)			
Orientation to sites of responsibility			
Site routine operation schedules			
Site maintenance			
Residence time calculations			

https://ww2.arb.ca.gov/re sources/documents/fieldoperator-and-calibratortraining-plan-example

Course or Task

Expected Completion Date

Date Completed

Trainer's Initials

APPENDIX B Example Field Training Plan for (Name) Start date:

US EPA and CARB Basic Training

Course	Expected Completion Date	Date Completed	Trainer's Initials
AP101: Air Academy Online Training (AAOT)	(i.e. within 3 months of start)		
 AP102: Air Quality Training Program (AQTP) - Online Training 			-
 Primary Quality Assurance Organization - Module 1 (Fundamentals of Air Monitoring and Station Setup and Operation) 			
 Primary Quality Assurance Organization - Module 2 (Data Validation) 			
APTI RE-100-1: Basic Concepts in Environmental Sciences - Module 1: Basic Concepts			
APTI SI-474: Introduction to Environmental Statistics			
APTI SI-409: Basic Air Pollution Meteorology			
Tour of CARB Facilities (Sacramento) Sacramento T-Street monitoring station Instrument repair shop Stockroom and warehouse Standards laboratory Inorganic and organics laboratories			

General Field Training

Task	Expected Date	Date Completed	Trainer's Initials
Defensive Driver Training (annual requirement)			
Heat Illness Prevention Training (annual requirement)			
Climbing and Safety Training (initial and annual refresher required)			
 Orientation to sites of responsibility 			
Site routine operation schedules			
Site maintenance			
Residence time calculations			

Online **Training**

Onboarding

General

Trainee's **Initials**

APPENDIX B Example Field Training Plan for (Name) Start date:

US EDA and CARR Rasic Training

Course	Expected Completion Date	Date Completed	Trainer's Initials	
AP101: Air Academy Online Training (AAOT)	(i.e. within 3 months of start)		-	
AP102: Air Quality Training Program (AQTP) - Online Training				
Primary Quality Assurance Organization - Module 1 (Fundamentals of Air Monitoring and Station Setup and Operation)				
Primary Quality Assurance Organization - Module 2 (Data Validation)				
APTI RE-100-1: Basic Concepts in Environmental Sciences - Module 1: Basic Concepts				
APTI SI-474: Introduction to Environmental Statistics				
APTI SI-409: Basic Air Pollution Meteorology				
Tour of CARB Facilities (Sacramento) Sacramento T-Street monitoring station Instrument repair shop Stockroom and warehouse Standards laboratory Inorganic and organics laboratories				

General	Field	Training	

Task	Expected Date	Date Completed	Trainer's Initials
Defensive Driver Training (annual requirement)			
Heat Illness Prevention Training (annual requirement)			
Climbing and Safety Training (initial and annual refresher required)			
Orientation to sites of responsibility			
Site routine operation schedules			
Site maintenance			
Residence time calculations			

Onboarding

Online **Training**

General

Task	Expected Date	Date Completed	Trainer's Initials
Instrument specific orientation Each instrument has a check sheet listing areas covered (attach when completed), SOP's		· · · · · · · · ·	i e
Instrument specific monthly QC forms			
Site Operating Principles			
Sample shipping, media, calendar schedule and sample storage			
 Field Documentation Log book entries Monthly Flow Report Nightly calibrations Precision reporting 			
 Quality Assurance Standards and Certifications Air Quality Data Actions (AQDA) Corrective Action Notifications (CAN) Audits, Trace, Flow, EPA-TSA 			

Calibrator Training

Task	Expected Date	Date Completed	Trainer's Initials
Instrument specific monthly QC forms			
Instrument specific orientation Each instrument has a check sheet listing areas covered (attach when completed)			
Calibration Principles	(
Use of Transfer Standards			
 Calibration Documentation Calibration reports Air Quality Data Actions (AQDA) Corrective Action Notifications (CAN) 			
	<u> </u>		<u> </u>

Air Monitoring Field Training Program January 27, 2019 Page **9** of 9

Document Review

AQ Data Management System

Docu	ımentation Review			
	Task	Expected Date	Date Completed	Trainer's Initials
	SOPs and instrument manuals for instruments under care			
•	CFR review			
•	U.S. EPA Handbook Vol II review (emphasis on DV tables)			
•	Branch memos and policies related to air			

Task	Expected Date	Date Completed	Trainer's
 Introduction to CARB Air Quality Data Management System (DMS) 			
Introduction to CARBLogger	-		
Databases: AQS, AQMIS, AQI's, POC's etc.			
Data Management Tools DMS Homepage Control Charts Data Matrix			
Data Review, Verification, and Validation Principles, Level 1 obligations, Level 2 obligations, Review Schedule			

All required training for(: been satisfactorily demons	 s been completed and profic	iency has

Manager Signature	Date	

Air Monitoring Field Training Program January 27, 2019 Page **9** of 9

Documentation

AQ Data Management System

Task	Expected Date	Date Completed	Trainer's
SOPs and instrument manuals for instruments under care			
CFR review			
U.S. EPA Handbook Vol II review (emphasis on DV tables)			
Branch memos and policies related to air monitoring			

AQ Data Management System				
	Task	Expected Date	Date Completed	Trainer's Initials
•	Introduction to CARB Air Quality Data Management System (DMS)			
•	Introduction to CARBLogger	-		
 Databases: AQS, AQMIS, AQI's, POC's etc. 				
•	Data Management Tools			
•	Data Review, Verification, and Validation Principles, Level 1 obligations, Level 2 obligations, Review Schedule			

All required training for (staff name)	has been completed and proficiency ha
been satisfactorily demonstrated.	

Manager Signature

Date

All required training for _	(staff name)	has been completed and proficiency has
been satisfactorily demo		

Manager Signature

Date

- · Have a Qualified Field Trainer
 - Acknowledgement Form

- · Have a Qualified Field Trainer
 - Acknowledgement Form
 - · Checklist of things to train
- · Operation, safety, QA/QC, sample handling, databases, etc.

- · Have a Qualified Field Trainer
 - Acknowledgement Form
 - Checklist of things to train
 - · Operation, safety, QA/QC, sample handling, databases, etc.
- · Training timeline

- · Have a Qualified Field Trainer
- · Acknowledgement Form
 - · Checklist of things to train
 - · Operation, safety, QA/QC, sample handling, databases, etc.
- · Training timeline
- · Dates training was completed

- · Have a Qualified Field Trainer
- · Acknowledgement Form
- · Checklist of things to train
 - · Operation, safety, QA/QC, sample handling, databases, etc.
- · Training timeline
- · Dates training was completed
- · Initials of both trainee and trainer

- · Have a Qualified Field Trainer
 - Acknowledgement Form
 - Checklist of things to train
- · Operation, safety, QA/QC, sample handling, databases, etc.
- - · Dates training was completed
- · Initials of both trainee and trainer
 - Manager's signature

Training timeline (expected completion dates)

- · Edit CARB's document MAKE IT YOUR OWN
- · Review the details and expectations with Trainee

- · Edit CARB's document MAKE IT YOUR OWN
 - · Review the details and expectations with Trainee
- · Add completion dates with initials of both Trainer and Trainee

- · Edit CARB's document MAKE IT YOUR OWN
- · Review the details and expectations with Trainee
- · Add completion dates with initials of both Trainer and Trainee
 - · Include a Manager sign off

- · Edit CARB's document MAKE IT YOUR OWN
 - · Review the details and expectations with Trainee
- · Add completion dates with initials of both Trainer and Trainee
 - · Include a Manager sign off
 - Review and update at least:
 - · annually,
 - · before you use it with a new employee,
 - · and when procedural changes are made

Why do we need a training program?

What should be included?

How do you use the training program?

Why do we need a training program?

DOCUMENTATION and CONSISTENCY

DUCUNICIVITITOIV and CUIVSISTCIVCI

What should be included?

How do you use the training program?

Why do we need a training program?

DOCUMENTATION and CONSISTENCY

What should be included?

EXPECTATIONS - TASKS - DATES - SIGNATURES

How do you use the training program?

Why do we need a training program?

DOCUMENTATION and CONSISTENCY

What should be included?

EXPECTATIONS - TASKS - DATES - SIGNATURES

How do you use the training program?

CUSTOMIZE and UPDATE REGULARLY

QUESTIONS?

Kathy Gill, Chief Reggie Smith, Air Resources Supervisor

<u>kathleen.gill@arb.ca.gov</u> reginald.smith@arb.ca.gov

(916) 445-9483 (916) 327-1238

https://ww2.arb.ca.gov/resources/documents/fieldoperator-and-calibrator-training-plan-example