

Air Pollution Control Technology

Regulation and Standard

by

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Chapter Description

- Aims
 - To promote air monitoring procedure and guidelines required by Malaysia's government
- Expected Outcomes
 - Students are able to communicate on standard procedure and guideline in Malaysia regarding to air quality monitoring
- References
 - Valerro, Daniel A. 2008. Fundamentals of air pollution. 4th edition. Elsevier.



Guideline

- According to Recommended Malaysia Air Quality Guidelines, seven pollutants addressed:
 - i) Ozone
 - ii) Carbon monoxide
 - iii) Nitrogen Dioxide – common pollutant in ambient air quality
 - iv) Sulphur Dioxide
 - v) Total Suspended Particulates
 - vi) Particle Matter (PM10)
 - vii) Dust



Recommended Malaysia Ambient Air Quality Guidelines

Pollutant	Averaging time	Malaysia Guideline	
		ppm	$\mu\text{g}/\text{m}^3$
Ozone	1 hour	0.10	200
	8 hours	0.06	120
Carbon monoxide	1 hour	30	35 mg/m^3
	8 hours	9	10 mg/m^3
Nitrogen Dioxide	1 hour	0.17	320
Sulphur Dioxide	10 min	0.19	500
	1 hour	0.13	350
	24 hours	0.04	105
Total Suspended Particles	24 hours		260
	1 year		90
Particulate Matter	24 hours		150
	1 year		50
Lead	3 months		1.5
Dust	1 year	133 mg/m^2	

Source: <http://excel-greentech.com/>



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Communitising Technology

Conclusion

- Procedures for measurement and sampling of ambient air quality need to be accredited by the Department of Standard Malaysia



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