

IPAN-SoTLAN CONFORMANCE SYSTEMS LTD.

EXAMINATION CONTENT OUTLINES

CERTIFIED ENVIRONMENTAL ANALYST (CEA)

KSAs Code	Test Content Area(s)	Number of Questions (100)
1.	Physical, chemical, microbiological properties, parameters and basic processes regarding environmental samples.	5
2.	Methods and principles of qualitative, quantitative and microbiological analyses of environmental samples.	5
3.	 Basic principles and uses of basic and high precision laboratory equipment for analysis of environmental samples, including the routine calibration and maintenance of these equipment; including conducting routine calibration of externally-calibrated laboratory equipment to ensure their continuous accuracy and traceability. Recommend or implement corrective action for analytical/instrumentation procedures (i.e. troubleshoot as appropriate and necessary). 	20
4.	 Carry out analysis of environmental samples with little supervision; Perform physical, chemical and microbiological analyses of environmental samples 	40
5.	Relevant and applicable up-to-date International and national standards and regulations (Appendix 1) regarding environmental samples.	5
6.	Proper chemical/toxicological management within a laboratory including occupational hazards, standard safety practices and good laboratory practices.	5
7.	Evaluate, interpret, and apply the results of laboratory testing, including advanced laboratory calculations, use of statistical tools/computer packages.	15
8.	 Establish and maintain good interpersonal and effective working relationships with superiors and supervision of subordinates; Supervise, train and evaluate the activities/performance of subordinates. 	5



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Appendix 1: NATIONAL ENVIRONMENTAL STANDARDS AND REGULATIONS FOR CEA

1) National Environmental Standards and Regulations Enforcement Agency (Establishment) Act, 2007.

2) National Environmental (Sanitation and Wastes Control) Regulations, 2009. S. I. No. 28.

3) National Environmental (Permitting and Licensing System) Regulations, 2009. S. I. No. 29.

4) National Environmental (Ozone Layer Protection) Regulations, 2009. S. I. No. 32.

5) National Environmental (Food, Beverages and Tobacco Sector) Regulations, 2009. S. I. No. 33.

6) National Environmental (Noise Standards and Control) Regulations, 2009. S. I. No. 35.

7) National Environmental (Chemicals, Pharmaceuticals, Soap and Detergent Manufacturing Industries) Regulations, 2009. S. I. No. 36.

8) National Environmental (Soil Erosion and Flood Control) Regulations, 2010. S. I. No. 12.

9) National Environmental (Control of Bush/Forest Fire and Open Burning) Regulations, 2010. S. I. No. 15.

10) National Environmental (Construction Sector) Regulations, 2010. S. I. No. 19.

11) National Environmental (Control of Vehicular Emissions from Petrol and Diesel Engines) Regulations, 2010. S. I. No. 20.

12) National Environmental (Surface and Groundwater Quality Control) Regulations, 2010. S. I. No. 22.