

QEP Topic Number	QEP Topic Name	Percent of Exam	QEP Topic Description
1.0	Area of Specialization	25	Detailed knowledge and experience in understanding the applicable legal requirements as well as characterizing, conducting, or overseeing projects within 4 major media/waste areas with respect to environmental quality.
1.1	Air	7	Detailed knowledge and experience in understanding the applicable legal requirements as well as characterizing, conducting, or overseeing projects related to air quality.
1.2	Soil	5	Detailed knowledge and experience in understanding the applicable legal requirements as well as characterizing, conducting or overseeing projects related to soil, geology, and related environmental issues.
1.3	Water	7	Detailed knowledge and experience in understanding the applicable legal requirements as well as characterizing, conducting or overseeing projects related to water quality.
1.4	Waste	6	Detailed knowledge and experience in understanding the applicable legal requirements as well as characterizing, conducting or overseeing projects related to solid, hazardous and other types of waste.
2.0	Environmental Management Systems (EMS) and Programs	16	Develop and implement EMS and related programs, policies, projects and ethical practices. Management of budgets, and staffing (internal and contractor). Establish and implement compliance programs, including identification of applicable requirements, and emerging issues and obtaining required permits and approvals. Management of relationships with key stakeholders, including staff, upper management, regulatory agencies, and the public.
2.1	Management	7	Develop and implement EMS and related programs, policies and projects. Management of budgets and staffing (internal and contractor), including insuring they are qualified and, if required, approved/certified.
2.2	Environmental Capacity Building	2	Management of relationships with key stakeholders including staff, upper management, regulatory agencies and the public.
2.3	Compliance	6	Establish and implement compliance programs, including identification of applicable requirements and emerging issues and obtaining required permits and approvals.
2.4	Ethics	1	Ethics - Knowledge of the BGC Ethics code and how it applies to QEPs.
3.0	Applying Environmental Technical and Related Skills	52	Apply critical thinking skills, conduct and evaluate environmental projects and programs, oversee treatment and/or remediation in all media. Collect, analyze and interpret data, including risk assessment.
3.1	Critical Thinking	11	Analyze and interpret data, including QA/QC, audit and other program reports, interpret regulations, requirements and reports.

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3.2	Evaluation	10	Conduct, implement and evaluate the effectiveness of programs, projects, risk assessments etc. Identify and evaluate potential sources of contamination and environmental risk. Evaluate and judge the effectiveness of treatment and pollution minimization and reduction operations/practices.
3.3	Treatment	8	Identify and evaluate available pollutant treatment methods in all media and wastes, including minimization, reduction and optimization of removal. Evaluate treatment efficiency and regulatory and/or permit compliance.
3.4	Remediation	7	Identify and evaluate probable and actual pollutant and areal extent of site contamination. Identify and prioritize contaminants and media needing remediation and establish remedial objectives for targeted contaminants and media. Develop and/or evaluate potential remedial plans.
3.5	Monitoring	6	Characterize and measure, in all media and wastes, constituent/contaminant levels, including representative sample collection and appropriate analytical methods. Establish/understand Data Quality Objectives. Understand key aspects of analytical methods, including field instrument operations and limitations, calibration requirements etc.
3.6	Risk Assessment	5	Determine the need for and then conduct/coordinate risk assessment for existing or hypothetical conditions. Assess potential receptors, on and off-site, and characterize/calculate contaminant concentrations at receptor locations. Assess the location and determine boundaries for an objective risk assessment, including the presence of minorities or disadvantages receptors within the boundaries.
3.7	Env. Math & Statistical Analysis	5	Perform basic environmental calculations such as mass balances. Identify statistical methods likely to be used in a data analysis to assist in setting Data Quality Objectives. Apply appropriate statistical methods to gathered data. Identify data trends using statistics and provide written interpretation of statistical results, including identifying limitations.
4.0	Communication	7	Written and oral communications with agencies, employees, management, the public and any other stakeholders. Includes EMS and related program documentation, regulatory submittals and communications, standard operating procedures, training materials and detailed technical reports.