**Continuous Monitoring Systems Course**

**Pre Self-Assessment**

**Directions:** Select the best answer for the question, using the scale provided.

**Module 1: Introduction to Continuous Monitoring Systems (CMS) -** How confident are you in your ability to:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Extremely Confident | Very Confident | Moderately Confident | Somewhat Confident | Not at all Confident |
|  |  |  |  |  |  |
| 1. Recognize the different types and uses of CMS |  |  |  |  |  |
| 2. Identify the regulations that contain CMS requirements |  |  |  |  |  |
| 3. Recognize, in general, what performance specifications are and how they are used |  |  |  |  |  |
| 4. Recall enforcement aspects of CMS |  |  |  |  |  |

**Module 2: Overview of CMS and CMS Design and Components -** How confident are you in your ability to:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Extremely Confident | Very Confident | Moderately Confident | Somewhat Confident | Not at all Confident |
|  |  |  |  |  |  |
| 1. Define opacity and describe how continuous opacity monitoring systems (COMS) are used |  |  |  |  |  |
| 2. Recognize the pollutant parameters measured by continuous monitoring systems (CMS) |  |  |  |  |  |
| 3. Distinguish between extractive and in-situ systems |  |  |  |  |  |
| 4. Describe how continuous emission rate monitoring systems (CERMS) function |  |  |  |  |  |
| 5. Give examples of CEMS location and siting considerations |  |  |  |  |  |

**Module 3: Performance Specifications, Quality Assurance, and Commonly Used Technologies -** How confident are you in your ability to:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Extremely Confident | Very Confident | Moderately Confident | Somewhat Confident | Not at all Confident |
|  |  |  |  |  |  |
| 1. Define key terms, such as calibration drift (CD), relative accuracy (RA), span value, etc. |  |  |  |  |  |
| 2. Compare performance specification (PS) and quality assurance (QA) procedures by pollutant, where relevant |  |  |  |  |  |
| 3. List relevant QA procedures by PS |  |  |  |  |  |
| 4. Provide examples of technologies that can be used for each PS |  |  |  |  |  |
| 5. Recognize why predictive emission monitoring systems (PEMS) PS are different from others |  |  |  |  |  |

**Module 4: Audits/Inspections and Enforcement -** How confident are you in your ability to:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Extremely Confident | Very Confident | Moderately Confident | Somewhat Confident | Not at all Confident |
|  |  |  |  |  |  |
| 1. Distinguish the difference between performance audits and systems/field audits |  |  |  |  |  |
| 2. Explain the utility of performance audits and systems/field audits |  |  |  |  |  |
| 3. Describe the inspector’s role during the Continuous Monitoring Systems (CMS) audit |  |  |  |  |  |
| 4. Describe the procedures necessary to use CMS data in determining compliance |  |  |  |  |  |
| 5. Assess daily, weekly, monthly, quarterly, and annual required preventative maintenance and QA requirements |  |  |  |  |  |
| 6. Distinguish between CMS as compliance method and CMS data as credible evidence |  |  |  |  |  |