



WATER RESOURCES DIVISION (WRD)

Industrial Storm Water Certified Operator Practice Exam

State of Michigan Industrial Storm Water Program

This document can be used by individuals when they are preparing for the Industrial Storm Water Certified Operator exam. The practice exam questions below are organized to follow the sections found in the [Industrial Storm Water Certified Operator Training Manual](#). The answers to the questions below can also be found in the training manual. This practice exam's format is fill in the blank, however the actual exam is multiple choice. Additional compliance assistance documents can be found at the EGLE, WRD [Industrial Storm Water Web page](#).

Intro / Water Quality and Storm Water

- 1) The acronym for the National Pollutant Discharge Elimination System is _____.
- 2) The storm water runoff from sources such as food processing, airport deicing, and sewage can cause _____ in lakes and streams causing fish kills.
- 3) Pollution Prevention is the _____ to prevent contamination of storm water.
- 4) The movement and endless recycling of water between the atmosphere, the land surface, and underground aquifers is called the _____.
- 5) The goal of the _____ is to reduce pollution entering Michigan's waters by implementing controls designed to prevent the contamination of storm water runoff.
- 6) _____ is one of the most widespread pollutants in surface water.
- 7) The initial washing action by storm water is referred to as the _____.
- 8) _____ as a result from storm water runoff can occur from areas of construction activities, bare soil around a facility, gravel parking lots, landfills, access roads, and mining operations.

Regulations Related to Storm Water

- 9) The intent of Part _____ is to provide a regulatory framework for sites of environmental contamination in order to protect public health and the environment.
- 10) The spill reporting requirements for _____ materials can be found in the Part 5 Rule.
- 11) The results of the investigation called the Nationwide Urban Runoff Program indicated that _____ contained many pollutants.
- 12) The Natural Resources and Environmental Protection Act acronym is _____.

Storm Water Permitting Framework

- 13) In Michigan, _____ classes of NPDES permits are issued to cover storm water discharges from industrial sites.
- 14) An outfall is a discharge point that discharges directly to _____ of the state.
- 15) What are the three conditions that require a facility to obtain coverage under an industrial storm water permit:
 1. _____
 2. _____
 3. _____
- 16) A location where a facility's storm water discharge enters a municipal separate storm sewer system is referred to as a _____.
- 17) Facilities that discharge storm water to a combined sewer system _____ need to obtain coverage under an industrial storm water permit issued by the WRD because the comingled storm water and sanitary sewage is managed by the municipal wastewater treatment plant.

Industrial Storm Water Discharge Permit Requirements

- 18) Under a general permit, a facility is authorized to discharge once a _____ of _____ is issued by the WRD.
- 19) If a facility has a _____, exposure of industrial materials and activities, and a storm water discharge to surface waters of the state they are required to have coverage under the NPDES ISW permit.
- 20) Facilities without _____ may apply for an exemption from the storm water permit requirements by submitting an application for a No Exposure Certification in MiEnviro.

Industrial Storm Water Certified Operator Requirements

- 21) The fee to obtain an Industrial Storm Water Certified Operator certification for the first time is \$_____.
- 22) Industrial Storm Water Operators should notify the WRD if their _____ changes.
- 23) A passing Industrial Storm Water Operator exam score is _____ percent correct.
- 24) The length of time the Industrial Storm Water Certified Operator certification is valid for is _____.

Storm Water Pollution Prevention Plan (SWPPP) Development

- 25) The goal of the _____ is to prevent storm water from contacting contaminants before being discharged into the receiving waters.
- 26) A written report / list regarding significant _____ shall be retained with the SWPPP records for three years.
- 27) _____ inspections should focus on areas identified in the SWPPP as having a high potential to contaminate storm water.
- 28) The best time to determine storm water _____ at a facility is during a rainstorm.
- 29) Best Management Practices (BMP) are in general the name for _____ and _____ controls designed to prevent the contamination of storm water.
- 30) Storm water _____ and _____ must be numbered or otherwise labeled for reference on the SWPPP site map.
- 31) The SWPPP site map must have outlines of _____ contributing to each storm water discharge point.
- 32) An aerial image, hand drawn sketch or electronically generated image can be used to develop a _____ for the SWPPP.
- 33) Storm water inlets include roof drains, catch basin, and _____ drains.
- 34) _____ starts with the development of a site map.
- 35) Spill prevention and response procedures, required by the industrial storm water permit, should include:
1. _____
 2. _____
 3. _____
 4. _____
- 36) _____ site inspections are required on a quarterly basis unless the WRD has approved an alternate schedule.
- 37) _____ are required by the industrial storm water permit to be analyzed by an industrial storm water certified operator however the water samples may be collected by qualified personnel.

- 38) Nonstructural control measures are _____ undertaken by employees at the facility, whereas structural controls are _____ features installed by the facility to reduce storm water exposure.
- 39) Water Quality Standards are state rules established to _____ surface waters of the state.
- 40) Total Maximum Daily Load (TMDL) information specific to the authorized storm water discharge for a facility can be found on the permittees.

Permittee Responsibilities

- 41) Within ten days of a release of any polluting material, the permittee shall submit a _____ report to the WRD.
- 42) Wastewater from vehicle and equipment wash water is _____ under the storm water permit.
- 43) The application for renewal of the COC must be submitted _____ prior to the expiration date.

Management Responsibilities

- 44) The permittee shall provide facilities for containment of any accidental losses of _____ or other _____ in accordance with the relevant statutes.
- 45) The permittee _____ allow EGLE, or any agent of EGLE, upon the presentation of credentials, to conduct inspections at the facility, access records required to be kept as a condition of the general permit, and to sample any discharge.

What to Expect During an EGLE WRD Industrial Storm Water Inspection

- 46) During the site inspection, EGLE will audit the SWPPP against the language in the general storm water _____.

Appendix B

- 47) An _____ is a physical connection to a Municipal Separate Storm Sewer System (MS4) that primarily conveys non-storm water discharges other than uncontaminated groundwater into the storm sewer; or a physical connection not authorized or permitted by the local authority (i.e. floor drain).
- 48) A discharge to waters of the state from any discernible, confined, and discrete conveyance, including but not limited to any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, or rolling stock is a _____.
- 49) A _____ is a storm event causing greater than 0.1 inch of rainfall and occurring at least 72 hours after the previous measurable storm event that also caused greater than 0.1 inch of rainfall.
- 50) Any material that could degrade or impair water quality is called a _____.

Answer Key

- 1) NPDES
- 2) oxygen depletion
- 3) best way
- 4) hydrologic cycle
- 5) storm water program
- 6) Sediment
- 7) first flush
- 8) Erosion
- 9) 201
- 10) polluting
- 11) storm water runoff
- 12) NREPA
- 13) 2
- 14) surface waters
- 15) 1) A regulated SIC code 2) A discharge to waters of the state 3) Exposure of industrial activities or material
- 16) Point of Discharge
- 17) don't
- 18) Certificate, Coverage
- 19) regulated SIC code
- 20) exposure
- 21) 30
- 22) home address
- 23) 70
- 24) 5 years
- 25) SWPPP
- 26) spills
- 27) Good housekeeping
- 28) drainage patterns
- 29) structural, nonstructural
- 30) inlets, discharge points
- 31) drainage areas
- 32) site map
- 33) trench
- 34) Source identification
- 35) 1) Identification of potential spill areas 2) Specification of material handling and storage procedures 3) Define what type of spills are reportable and to whom they need to be reported 4) Detailed cleanup procedures, which include the location of spill kits, cleanup equipment, identification of cleanup personnel, and phone numbers of appropriate personnel
- 36) Comprehensive
- 37) Visual assessments
- 38) activities, physical
- 39) protect
- 40) COC
- 41) written
- 42) not authorized
- 43) 6 months
- 44) Oil, polluting materials
- 45) shall
- 46) permit
- 47) illicit connection
- 48) point source discharge
- 49) qualifying storm event
- 50) significant material

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