

Inspector for Stormwater Management

Department of Environmental Quality
Office of Training Services

Agenda – Day 1

- 8:30 – 10:00
 - Mod. 1 – Intro to VSMP
- 10:00 – 10:15
 - Break
- 10:15 – 11:00
 - Mod. 2 – Basic Stormwater Principles
- 11:00 – 12:00
 - Mod. 3 – Overview of VSMP
- 12:00 – 1:00
 - Lunch

Agenda – Day 1

- 1:00 – 2:00
 - Mod. 3 – Continued
- 2:00 – 2:15
 - Break
- 2:15 – 4:00
 - Mod. 4 – Construction Inspections

Agenda – Day 2

- 8:30 – 9:00
 - Mod. 4 Exercise
- 9:00 – 9:45
 - Mod. 5 – Common BMP Construction Inspection Points
- 9:45 – 10:00
 - Break
- 10:00 – 12:00
 - Mod. 6 – Construction Inspections of 15 Non-Proprietary BMPs
- 12:00 – 1:00
 - Lunch

Agenda – Day 2

- 1:00 – 2:00
 - Mod. 6 – Continued
- 2:00 – 2:15
 - Break
- 2:15 – 2:45
 - Module 6 Exercise
- 2:45 – 3:30
 - Module 7 – Post Construction Inspections of 15 Non-Proprietary BMPs
- 3:30 – 4:00
 - Module 7 Exercise

Course Goal

- VSMP inspectors will be able to:
 - Inspect a construction site to determine compliance with the Stormwater Management Act and Regulations by identifying common indicators of compliance with the approved ESC plan and SWM plan, looking for the development, updating and implementation of a pollution prevention plan and any additional control measures to address a TMDL, and communicating inspection findings with the responsible party.

Course Goal

- VSMP inspectors will be able to:
 - Inspect a stormwater management facility after construction to determine whether the facility is being adequately maintained by identifying common indicators of properly functioning facilities and communicating findings with the responsible party.

Getting to Know Your PG

- Modules 1-7
- Knowledge Check Answers
- Laws and Regulations
- Virginia BMP Design Specifications (1-15)

Module 1

Introduction to the Virginia Stormwater Management Program

Module 1 Contents

- 1a. Overview of the Virginia Stormwater Management Program
- 1b. Training and Certification Requirements

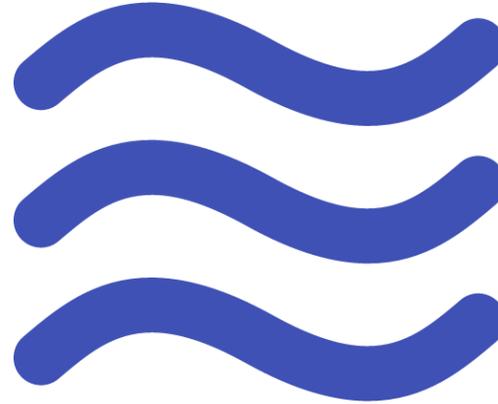
Module 1a.

Overview of the Virginia Stormwater Management Program

Goal



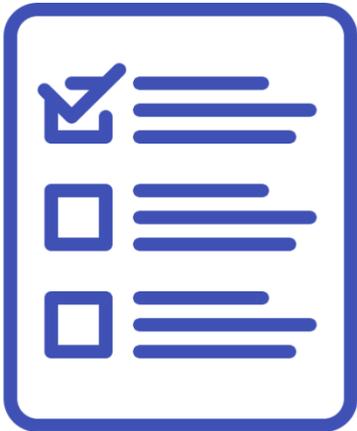
Health
Safety
Welfare



Water quality
Water quantity

Goal

Plan review



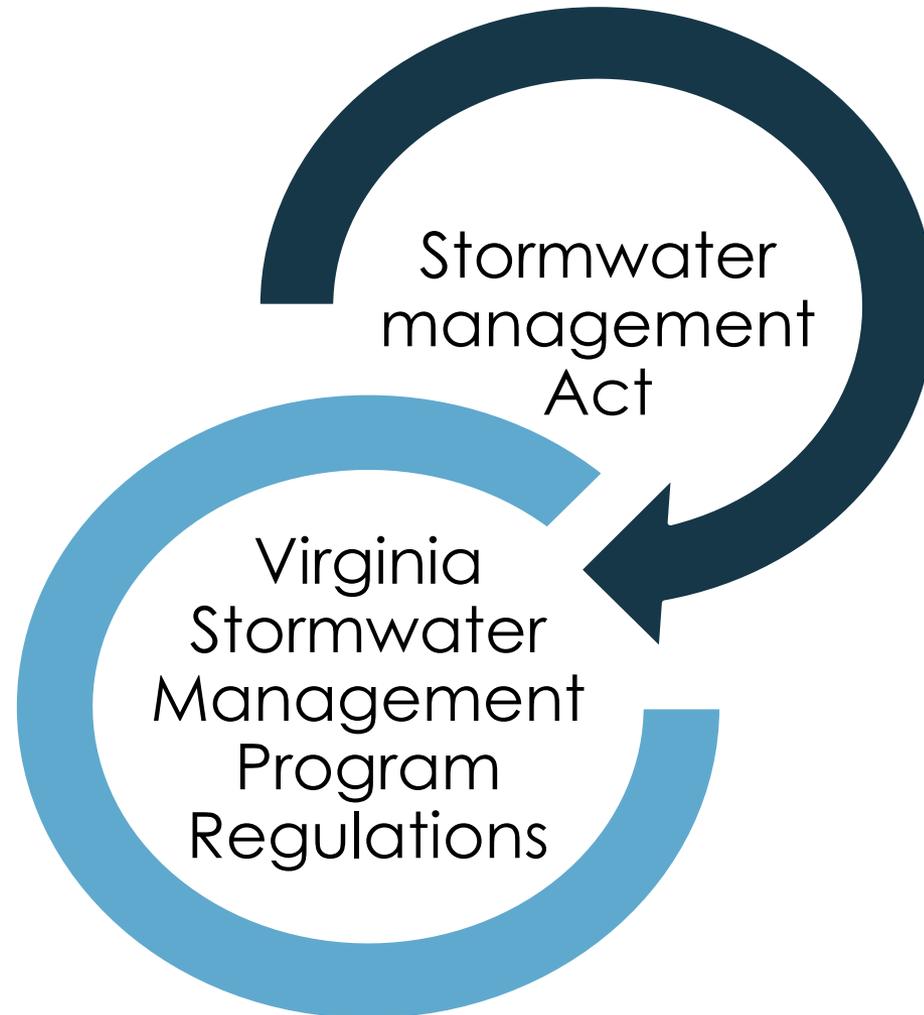
Construction



Post-construction



Authority



VSMP does not limit the applicability of other laws and regulations



VSMP

- Manage quality and quantity of runoff
 - Local ordinances
 - Policies and guidelines
 - Annual standards and specifications
 - Permit requirements
 - Technical material
 - Plan review
 - Inspection
 - Enforcement

VSMP Authority

- Approved by the Board to operate a VSMP
 - An authority may be:
 - A locality
 - State entity
 - Federal entity
 - A linear utility entity such as electric, natural gas pipeline company, railroad company or others

Requirements to Administer

- The Act requires certain localities to adopt a VSMP and allows other localities and entities to choose whether to adopt or not
- DEQ is the VSMP authority for all localities and entities that do not adopt a VSMP

Requirements to Administer

- May have agreements with soil and water conservation districts, localities, or other public or private entities to carry out or assist with administering a VSMP
- DEQ is VSMP authority for all localities and entities that do not adopt

Requirements

Localities that **MUST** adopt a VSMP

MS4 Localities

Requirements

Entities that MAY adopt a VSMP

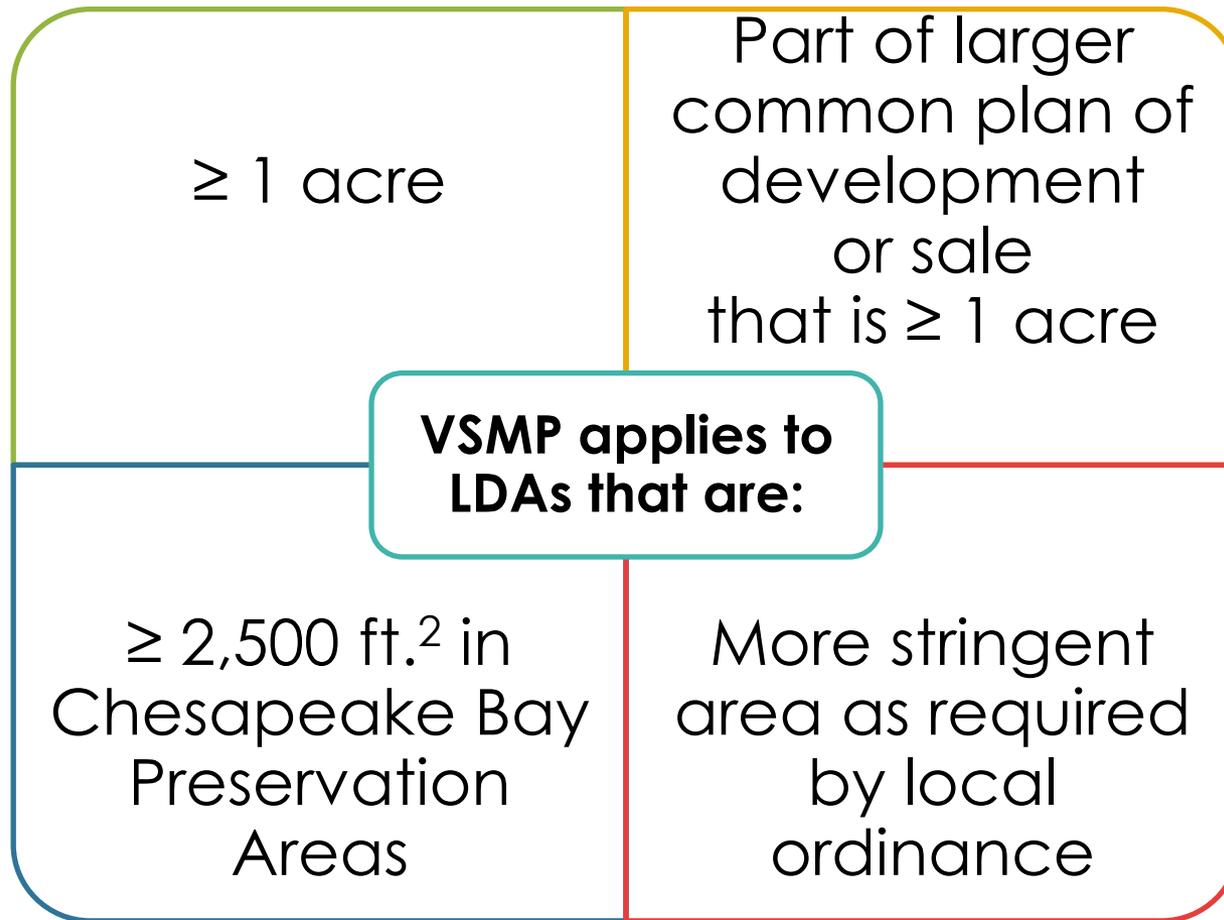
Non-MS4 Localities

- State entities
- Federal entities
- Linear projects subject to annual stds. and specs.

Regulated LDA

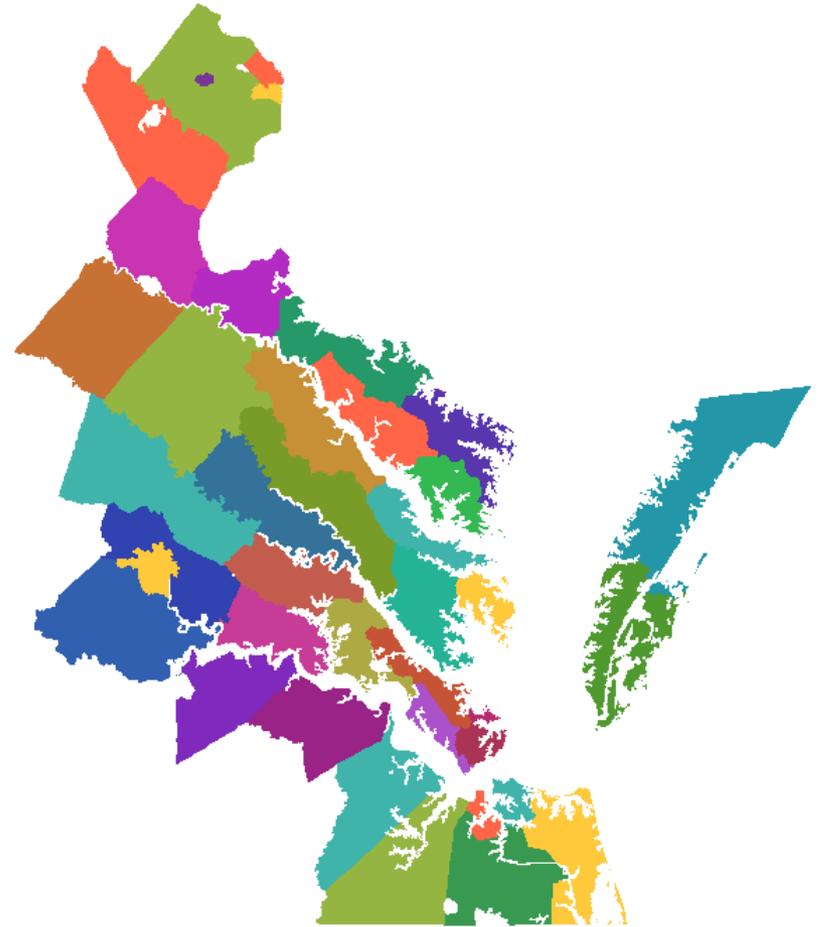
- Manmade change to the land surface that potentially changes its runoff characteristics including:
 - Clearing
 - Grading
 - Excavation

Regulated LDA

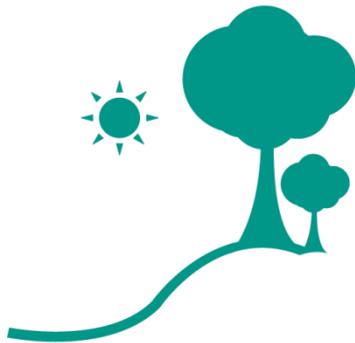
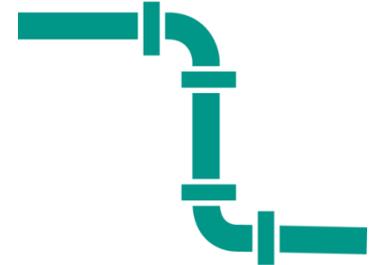


Chesapeake Bay Preservation Act Land-Disturbing Activity

- LDAs $\geq 2,500$ ft.² and < 1 acre in areas subject to Chesapeake Bay Preservation Area Designation and Management Regulations



Exemptions



Construction GP

- Permit authorizes discharges from construction activities
 - ≥ 1 acre
 - Common plan of development or sale ≥ 1 acre
 - Non compliance with permit = violation of Stormwater Management Act
 - Issued by DEQ

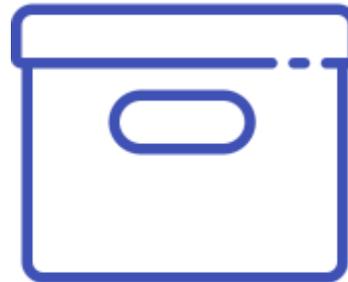
Operator

- Owner or operator subject to Act and Regs
- Under Construction GP
 - Direct operational control over construction plans and specifications, or
 - Day-to-day operational control over activities necessary for complying with SWPPP

Locality VSMP Authority Permit

- Consolidated ESC and SWM
- Must include copy or reference to Construction GP
- Locality approval to start land disturbance after Construction GP issued (if required)

Program Administrator



Inspector

- What duties or job related responsibilities do you think an inspector carries out?



Inspector



SWPPP



Plan Reviewer



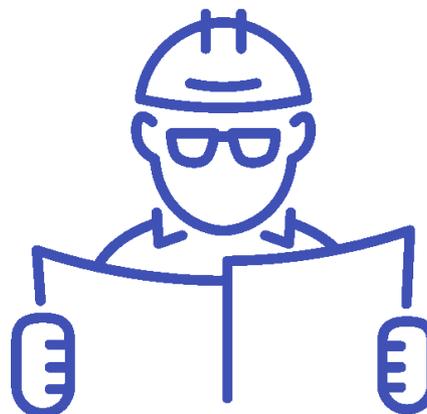
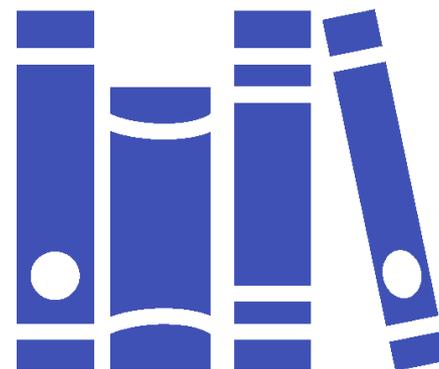
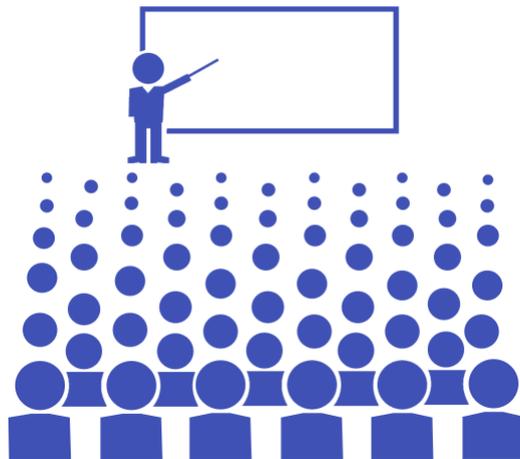
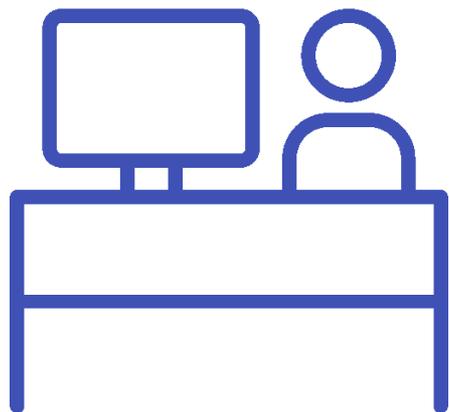
Combined Administrator



State Water Control Board

Permits, regulates and controls stormwater runoff to ensure the general health, safety, welfare of the citizens of the Commonwealth as well as protect the quality and quantity of state waters from the potential harm of unmanaged stormwater.

DEQ



Inspections

- Critical role!
- Ensures compliance with:
 - Construction GP
 - ESC Regulations
 - VSMP Regulations
- Protects natural resources



Inspections

- VSMP authority inspections during construction
- **Periodically** inspect LDA for:
 - Compliance with approved ESC plan
 - Compliance with approved SWM plan
 - Development, updating, and implementation of P2 plan
 - Development and implementation of any additional control measures necessary to address a TMDL



Inspections

- VSMP authority inspections after construction
 - Inspect stormwater management facilities at least once every 5 years
 - May use inspection reports from owner if conducted by authorized person



Inspections

- Qualified personnel
 - Conducts SWPPP inspections for the operator
 - Knowledgeable in principles and practices of ESC and SWM controls
 - Posses skills to assess conditions at construction site that could impact stormwater quality and quantity
 - Posses skills to assess effectiveness of ESC measures or SWM facilities to control the quality and quantity of stormwater discharges from the construction activity

Inspections

- Comparison of inspection requirements
 - Tables on pages 14 – 16 outline how the Construction GP, VSMP, and ESC Regulations set forth inspection requirements for:
 - Operator
 - VESCP authority
 - VSMP authority

Inspections

Construction Inspections

Table 1a-2

	Construction GP Regulation (9VAC25-880-70 Part II (F))	ESC Regulation (9VAC25-840-60)	VSMP Regulation (9VAC25-870-114)
Inspector	Qualified personnel	VESCP authority	VSMP authority
Frequency			
Inspection criteria			

Inspections

Construction Inspections

Table 1a-2

	Construction GP Regulation <u>(9VAC25-880-70 Part II (F))</u>	ESC Regulation <u>(9VAC25-840-60)</u>	VSMP Regulation <u>(9VAC25-870-114)</u>
Inspector	Qualified personnel	VESCP authority	VSMP authority
Frequency			
Inspection criteria			

Construction Inspections

State Stormwater Management Annual Standards and Specifications

Table 1a-3

	Construction GP Regulation <u>(9VAC25-880-70 Part II (F))</u>	ESC Regulation <u>(9VAC25-840-60)</u>	VSMP Regulation <u>(9VAC25-870-200)</u>
Inspector	Qualified personnel	Designated by operator	State agency
Frequency		Periodically	Periodically & Response to complaint
Inspection criteria		ESC annual standards & specs	

Inspections

Post-Construction Inspections

(9VAC25-870-114)

Table 1a-4

	VSMP authority	Property owner	State agency
Inspector	VSMP authority		
Frequency	At least once 5 yrs		
Inspection criteria	Long-term maintenance agreement		

Inspections

Post-Construction Inspections

(9VAC25-870-114)

Table 1a-4

	VSMP authority	Property owner	State agency
Inspector		Designated by owner	
Frequency		BMP spec	
Inspection criteria		Long-term maintenance agreement	

Inspections

Post-Construction Inspections

(9VAC25-870-114)

Table 1a-4

	VSMP authority	Property owner	State agency
Inspector			State agency
Frequency			Annually Certain storms
Inspection criteria			Effectiveness of SWM

Module 1b.

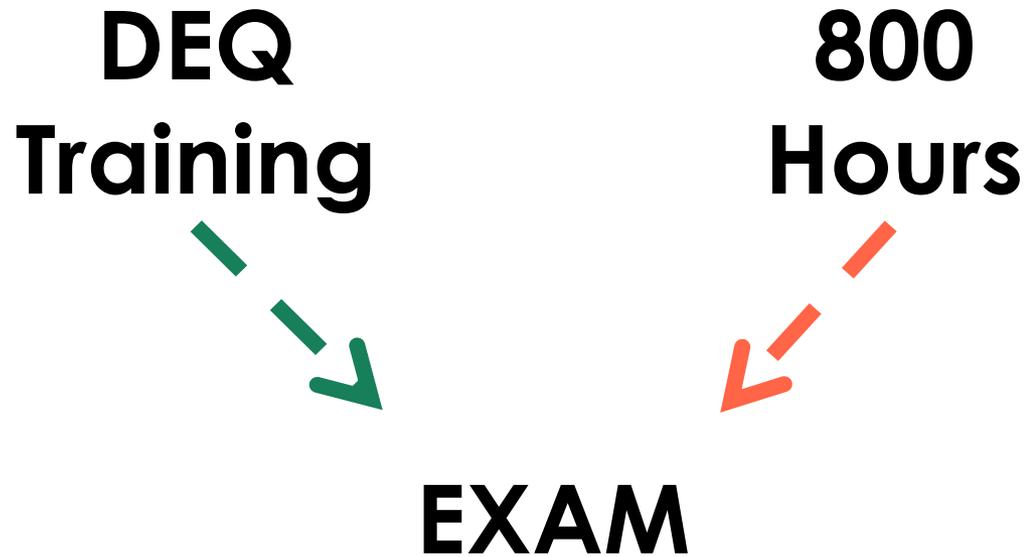
Training and Certification

Who Has to Be Certified?

- VSMP staff
- Anyone contracted by a VSMP authority



How to Obtain a Certificate



DEQ Training Courses

Program Administrator

Program Administrator
1 day

Inspector

Inspector
2 days

Plan Reviewer

Plan Reviewer
3 days

Combined Administrator*

Program Administrator
1 day

Inspector
2 days

Plan Reviewer
3 days

* The Combined Administrator Courses may be taken in any order

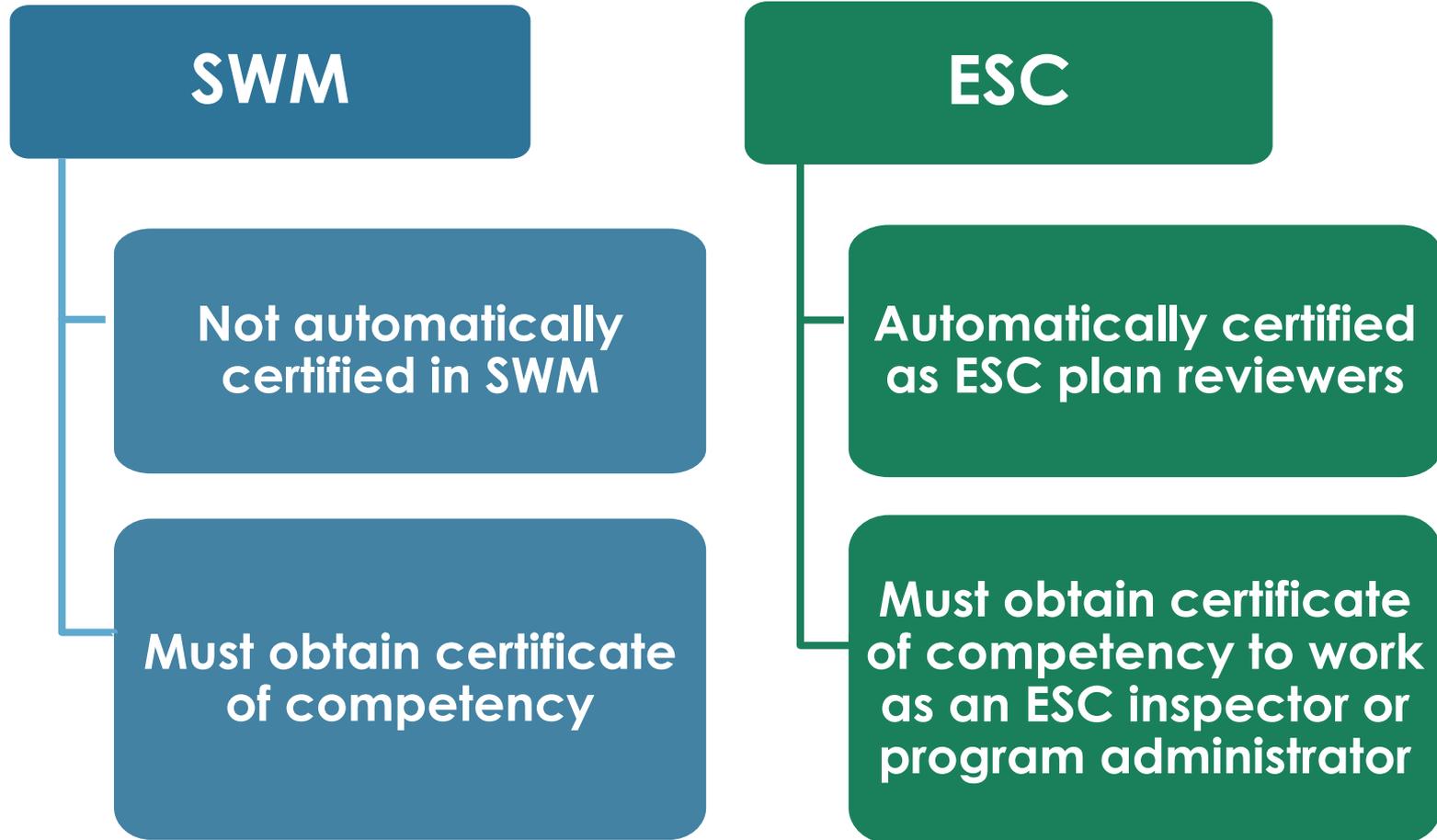
Provisional Certification

**Take
training** **+** **Pass
exam** **=** **2
years**

800 Hours Work Experience



Licensed Professionals



Examination

- Administered by Pearson Vue
 - Taken on a computer
 - Open book

Examination

Program
Administrator
& Inspector
2 hours

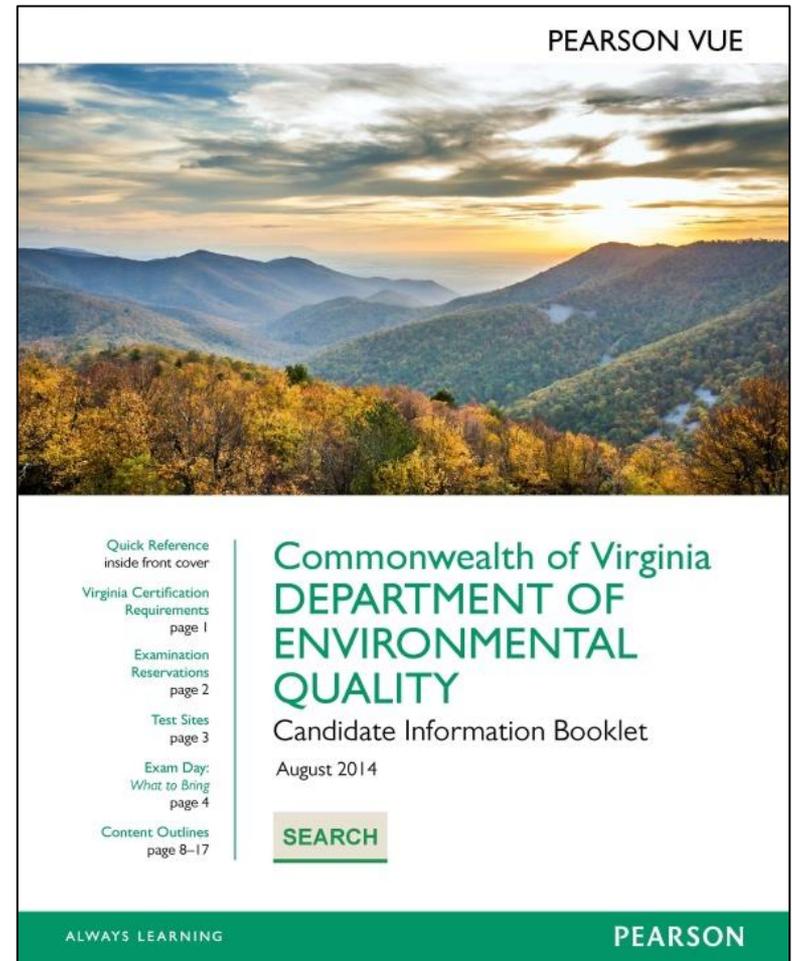
Plan
Reviewer
3 hours

Combined
Administrator
4 hours



Candidate Information Booklet

- Exam reservations
- What to bring
- What not to bring
- Candidate identification
- Course certificates
- Exam content outlines



Make sure the name on your course certificate(s) matches your ID



Examination Results

- At least 70% to pass
- Results provided immediately
- Certificate emailed by CATS



Certification and Accreditation Tracking System (CATS)

Welcome! If you already hold a certificate, please click [Find My Profile](#) below and follow the directions.

Current RLD certificate? (want to print or renew it)

- [Video - How to use Find My Profile \(4 mins\)](#)
- [Video - How to launch RLD course \(4 mins\)](#)

Expired RLD certificate or New RLD certificate?

- [Video - How to Create New Profile \(5 mins\)](#)

Erosion or Stormwater certified? (renew with contact hours or combine for dual)

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- [Video - How to enter Contact Hours \(5 mins\)](#)
- [Video - How to add a Professional License \(1 min\)](#)
- [Video - How to combine certifications for Dual Certificate \(2 mins\)](#)

Returning User[Log In](#)

Log in to maintain your certifications.

New User[Find My Profile](#)

Already certified? Click here to find your certificate and obtain your login details.

[Create New Profile](#)

Click here if new to CATS and seeking an RLD certificate.

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Search for certificate holders.

Dual Certifications

ESC Program Administrator	+	SWM Program Administrator	=	Dual Program Administrator
ESC Inspector	+	SWM Inspector	=	Dual Inspector
ESC Plan Reviewer	+	SWM Plan Reviewer	=	Dual Plan Reviewer
ESC Combined Administrator	+	SWM Combined Administrator	=	Dual Combined Administrator

Re-Certification



All certificates are valid for 3 years

Re-Certification

Re-certification Options		
Re-take exam	Complete contact hours (\$) <i>Program admin:</i> 12 hours <i>Inspector :</i> 18 hours <i>Plan reviewer:</i> 21 hours <i>Combined admin:</i> 24 hours	Maintain professional license (\$)



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Questions?