

NATIONAL  
GREEN  
INFRASTRUCTURE  
CERTIFICATION  
PROGRAM •

ngicp



# Agenda

- ▶ Overview
- ▶ How was it developed?
- ▶ But what is it really?
- ▶ What now?



# PROGRAM OVERVIEW





# What is it?



- ▶ Tool to provide base knowledge for construction, inspection and maintenance of GI
- ▶ National credential
- ▶ Developed in accordance with ANSI accreditation guidelines

# Who is it for?

- ▶ Construction and maintenance workers and inspectors
- ▶ High school diploma or GED



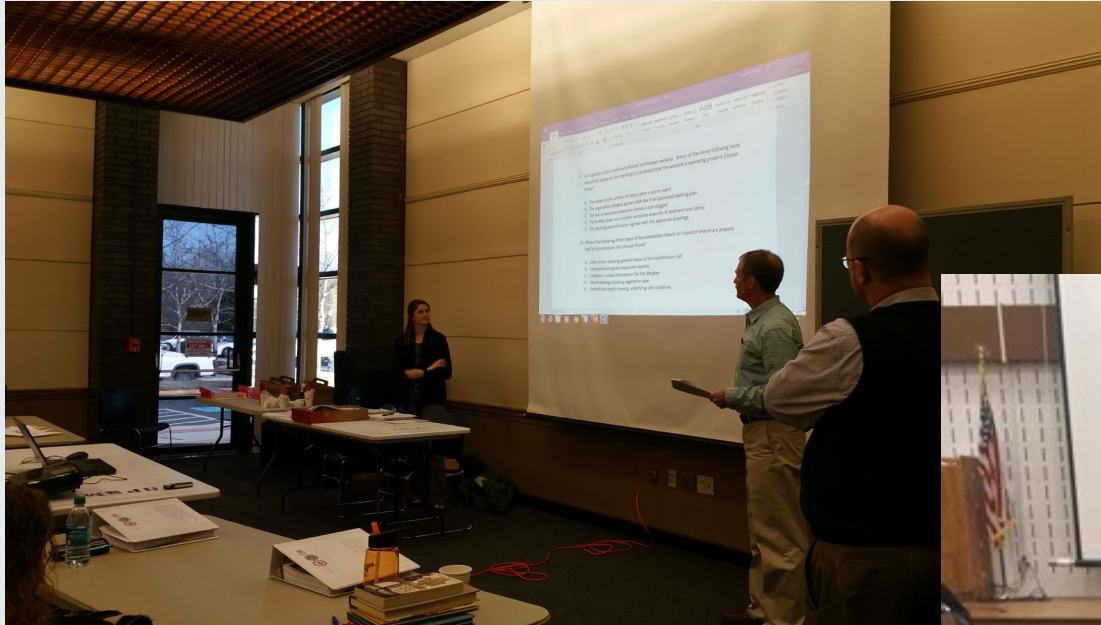


# Why do we need this program?



Photos courtesy of Steve Jacobus, NJDEP

# How does it work?



Regional training



WEF-administered exam

# HOW WAS IT DEVELOPED?

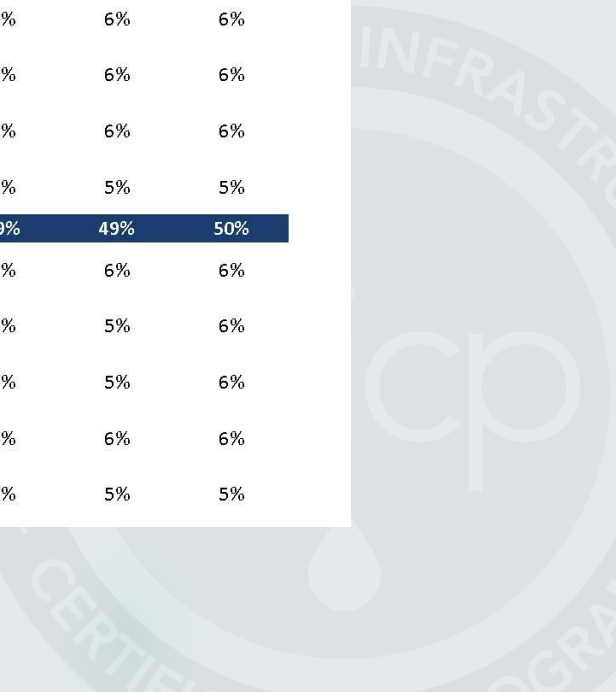




# Job Task Analysis

**Initial Blueprint Weights based on the Recommendations of the JTA panel and Survey Respondants**

Section/ Objective	Section/Objective Name	Weights			
		From Original Panel	All Complete (n=120)	From Survey 10 or fewer years in GI (n=83)	Less than Master's Degree (n=72)
<b>1</b>	<b>Watershed Fundamentals</b>	<b>10%</b>	<b>11%</b>	<b>11%</b>	<b>11%</b>
1.01	Apply the key concepts of basic hydrology/hydrologic function	6%	6%	6%	5%
1.02	Apply the basic concept and recognize the environmental benefits of stormwater management and green infrastructure	5%	6%	6%	6%
<b>2</b>	<b>GI practices</b>	<b>22%</b>	<b>23%</b>	<b>23%</b>	<b>23%</b>
2.01	Identify basic functionality of various GI practices	5%	6%	6%	6%
2.02	Identify the purpose, functionality, and properties of the basic physical components of GI practices	6%	6%	6%	6%
2.03	Apply key concepts related to lifecycle of GI practices	5%	6%	6%	6%
2.04	Identify the terminology used to describe various GI practices	5%	5%	5%	5%
<b>3</b>	<b>GI Methods and Materials</b>	<b>52%</b>	<b>49%</b>	<b>49%</b>	<b>50%</b>
3.01	Recognize the appropriate application of equipment for the construction or the maintenance of a GI practice	6%	6%	6%	6%
3.02	Apply the key concepts of site layout and grade checking	5%	6%	5%	6%
3.03	Recognize the purpose of common GI construction materials	7%	5%	5%	6%
3.04	Apply the key concepts of basic vegetation management and establishment	5%	6%	6%	6%
3.05	Recognize the significance of and identify the procedure for the proper storage and handling of materials	5%	5%	5%	5%

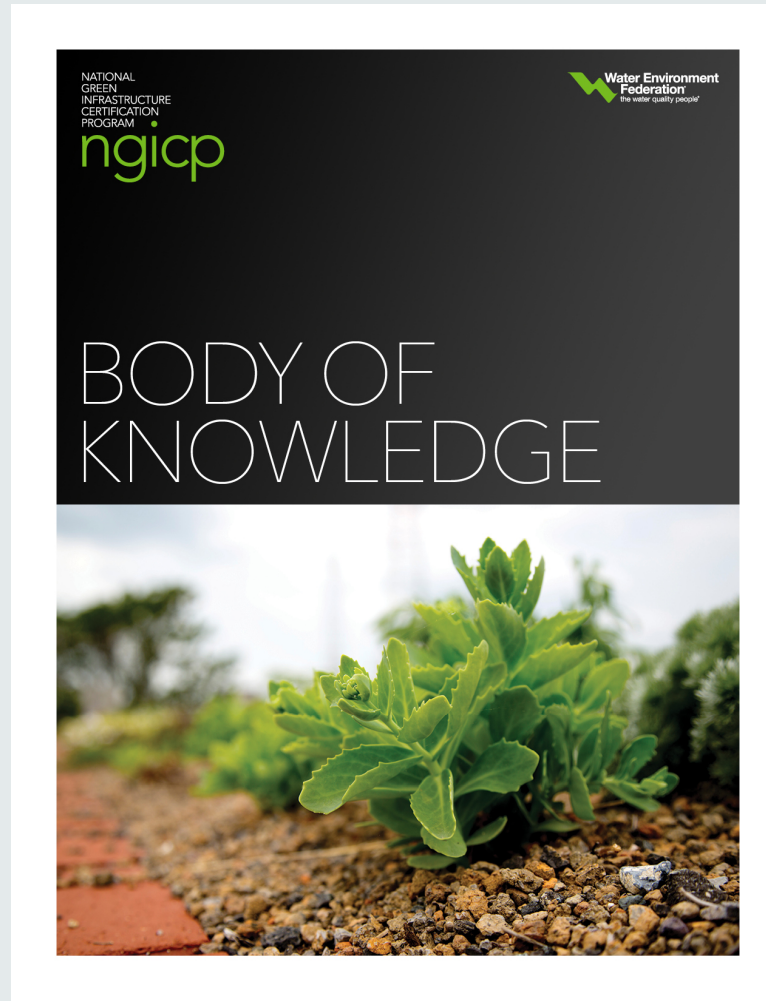


# Exam Blueprint



[http://ngicp.org/wp-content/uploads/2016/11/NGICP-Exam-Blueprint-Summary\\_Nov-2016.pdf](http://ngicp.org/wp-content/uploads/2016/11/NGICP-Exam-Blueprint-Summary_Nov-2016.pdf)

# Body of Knowledge



[http://ngicp.org/wp-content/uploads/2016/07/NGICP\\_Body-of-Knowledge-1.pdf](http://ngicp.org/wp-content/uploads/2016/07/NGICP_Body-of-Knowledge-1.pdf)



BUT WHAT IS IT REALLY?



# Workforce Development



DC Water

# Professional Development



Fairfax County



GA Association of Water Professionals



# WHAT NOW?



# Pilots, Pilots, and More Pilots



Woodson STEM High School, Ward 7, DC

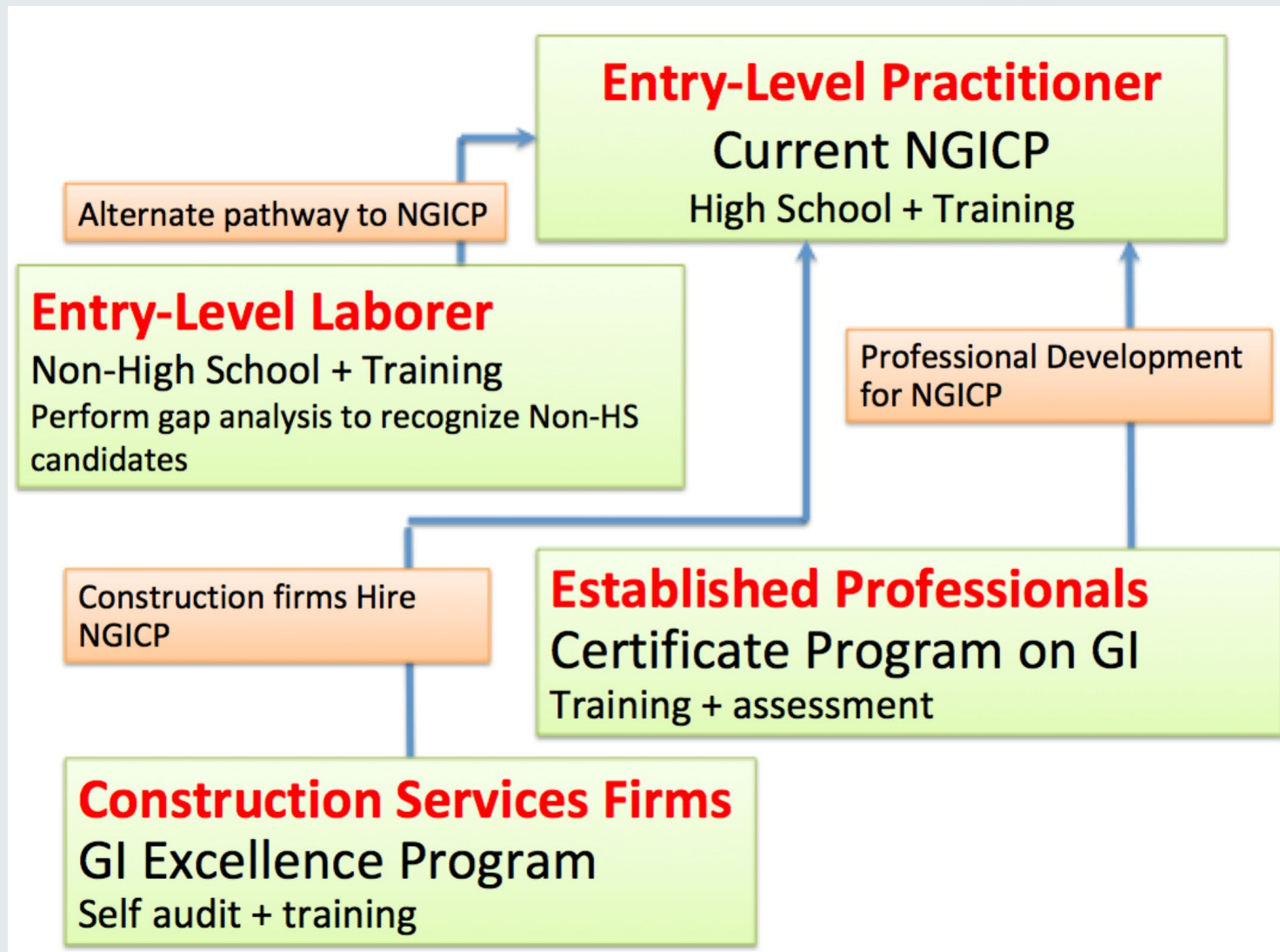


Blended learning



Parkland College, Champaign, Illinois

# Program Expansion Pilot





# Contact Information



**Adriana Caldarelli**  
Director, NGICP

[acaldarelli@wef.org](mailto:acaldarelli@wef.org)  
[www.wef.org](http://www.wef.org)

601 Wythe Street  
Alexandria, Virginia  
22314-1994

703.684.2406  
cell 609.457.8664



[www.ngicp.org](http://www.ngicp.org)