Development of the National Green Infrastructure Certification Program (NGICP)
What is NGICP?

- A certification for **individuals**
- A nationwide credential that is portable across the US
- An entry level certification that validates that candidates possess the foundational knowledge that supports proper job task performance for GI construction, inspection and maintenance workers
- Program is being built in accordance with the ANSI/ISO/IEC accreditation guidelines for certifying individuals
Objectives of NGICP

- Ensure that a skilled labor pool is prepared to install, inspect and maintain GI facilities
- Support sustainable performance of GI practices
- Create perennial GI jobs that will pay a living wage to unemployed or underemployed local residents
Initiation of NGICP Development

- DC Water recently completed renegotiating their Consent Order to include significant GI.
- DC Water wanted to utilize a certification to demonstrate their commitment to using skilled workers on their GI projects.
- DC Water wanted to make this credential available to DC residents who were looking for new career paths.
Partnership with WEF

- Initial research did not identify a national level program that supported DC Water’s goals
- DC Water partnered with WEF to develop “The Need for National Green Infrastructure Training and Certification” white paper
- DC Water and WEF signed an agreement in January 2016 to get the NGICP development underway
Building the National Team

- WEF and DC Water initiated the certification development in January 2016
- At the same time, we reached out to potential partner organizations across the US
- Partners have committed financial and technical resources to support the development of the NGICP
Municipal/Utility Program Partners

- Milwaukee Metropolitan Sewerage District (MMSD), Wisconsin
- Montgomery County, Maryland
- Kansas City Water Services Department, Missouri
- Fairfax County, Virginia
- City of Baltimore Department of Public Works, Maryland
- Louisville Metropolitan Sewer District, Kentucky
- San Francisco Public Utilities Commission, California
- Capital Region Water, Harrisburg, Pennsylvania
- DC Department of Energy and the Environment
- Metropolitan Water Reclamation District of Greater Chicago, Illinois
- New Orleans Delegation, Louisiana
- Pittsburgh Water and Sewer Authority, Pittsburgh, Pennsylvania
- Metropolitan Sewer District of Greater Cincinnati, Cincinnati, Ohio
Simplified Development Process

Job Analysis: defines the knowledge workers need to properly install, maintain and inspect GI.
Strategic Advisory Group (SAG) Members

- Carlton Ray/Bethany Bezak, DC Water Representative
- Kevin Shafer/Karen Sands, MMSD Representative
- Randy Bartlett, Fairfax County Representative
- Terry Leeds/Andy Shively, Kansas City Representative
- Lisa Feldt/Steve Shofar, Montgomery County Representative
- Rudy Chow/Alan Robinson, City of Baltimore Representative
- David Johnson/Wes Sydnor, Louisville MSD Representative
- Sarah Minick/Mike Adamow, San Francisco Public Utilities Commission Representative
- David Stewart/Claire Maulhardt, Capital Region Water, Harrisburg, Pennsylvania Representative
- Brandi Ebanks, New Orleans Coalition
Technical Advisory Group (TAG) Members

- Bethany Bezak, DC Water Representative
- Lisa Sasso, MMSD Representative
- Karlee Copeland/Heather Ambrose, Fairfax County Representatives
- Lisa Treese/Priya Iyengar/Andy Sauer, Kansas City Representatives
- Amy Stevens, Montgomery County Representative
- Alisha Goldstein, District of Columbia Department of Energy and the Environment Representative
- Kim Grove, City of Baltimore Representative
- Wes Sydnor/Jordan Basham, Louisville MSD Representatives
- Mike Adamow/Alex Geyer, San Francisco Public Utilities Commission Representatives
- Claire Maulhardt, Capital Region Water, Harrisburg, Pennsylvania Representative
- Vicki Rivers/Brandon Rapp, New Orleans Coalition, Louisiana Representatives
Governing Body Members

- Geoff Brosseau, Executive Director of the California Stormwater Quality Association
- Jeanette Brown, Assistant Professor, Manhattan College
- Bart Jones, Principal at Barton Jones, LLC
- Sandra Ralston, Principal at Consensus, LLC
- Marsha Slaughter, Utilities Director for the City of Oklahoma
- Alan Vicory, Principal at Stantec
- Jennifer Wigal, Water Quality Program Manager at the Oregon Department of Environmental Quality
- Carlton Ray, Director, DC Water DC Clean Rivers Project, District of Columbia
Current Development Status

- Job Analysis Survey closed May 27th
  - 128 participants
  - Represent 24 states, District of Columbia and Guam
- Exam blueprint has been approved as of 7/15/16
- Governing Body is working on Program policies and procedures
- Web site launched on 7/18/16 – www.ngicp.org
- Body of Knowledge Report is downloadable from the web site
- Curriculum and training support materials development is underway
- Exam writing will begin in mid-September
## Status of Program Components

### Green Infrastructure Certification Program Development Schedule

<table>
<thead>
<tr>
<th>Task</th>
<th>0%</th>
<th>10%</th>
<th>20%</th>
<th>30%</th>
<th>40%</th>
<th>50%</th>
<th>60%</th>
<th>70%</th>
<th>80%</th>
<th>90%</th>
<th>100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Program Policies &amp; Procedures</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Body of Knowledge</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Job Task Analysis/Exam Blueprint Development</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Exam Development</td>
<td></td>
<td></td>
<td></td>
<td>10%</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Training Materials Development</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Web Site Development</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>National Rollout Strategy</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Welcome to NGICP, the standard for national certification of green infrastructure (GI) construction, inspection, and maintenance workers.
Body of Knowledge

Materials for Applicants, Technical Resources

The Body of Knowledge is a document that lists the technical resources that were identified, reviewed, and selected as reference materials for the development of the NGICP.

The references include a mix of the following:

- existing GI educational materials
- publications/manuals/technical bulletins
- brochures/factsheets/forms/checklists, videos/webcasts
- books

The list of references are organized into two categories — a comprehensive list (Table 7) of all identified materials and materials that are publicly available for download or purchase (Tables 1–6).

Download the NGICP: Body of Knowledge

(Document last updated July 2016.)