

Development of the National Green Infrastructure Certification Program (NGICP)

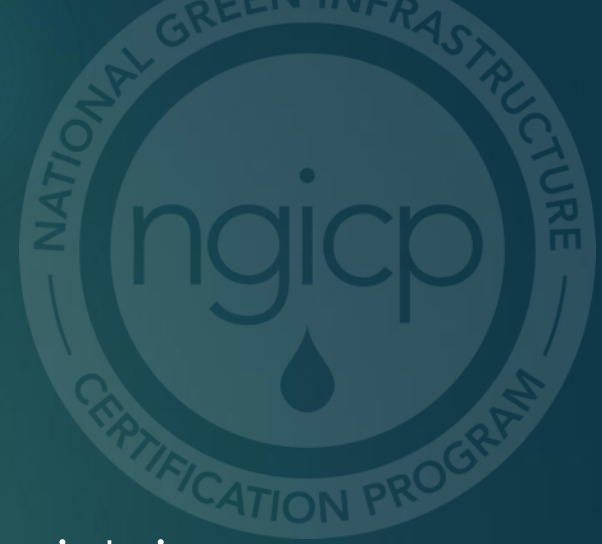


What is NGICP?

- ▶ 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



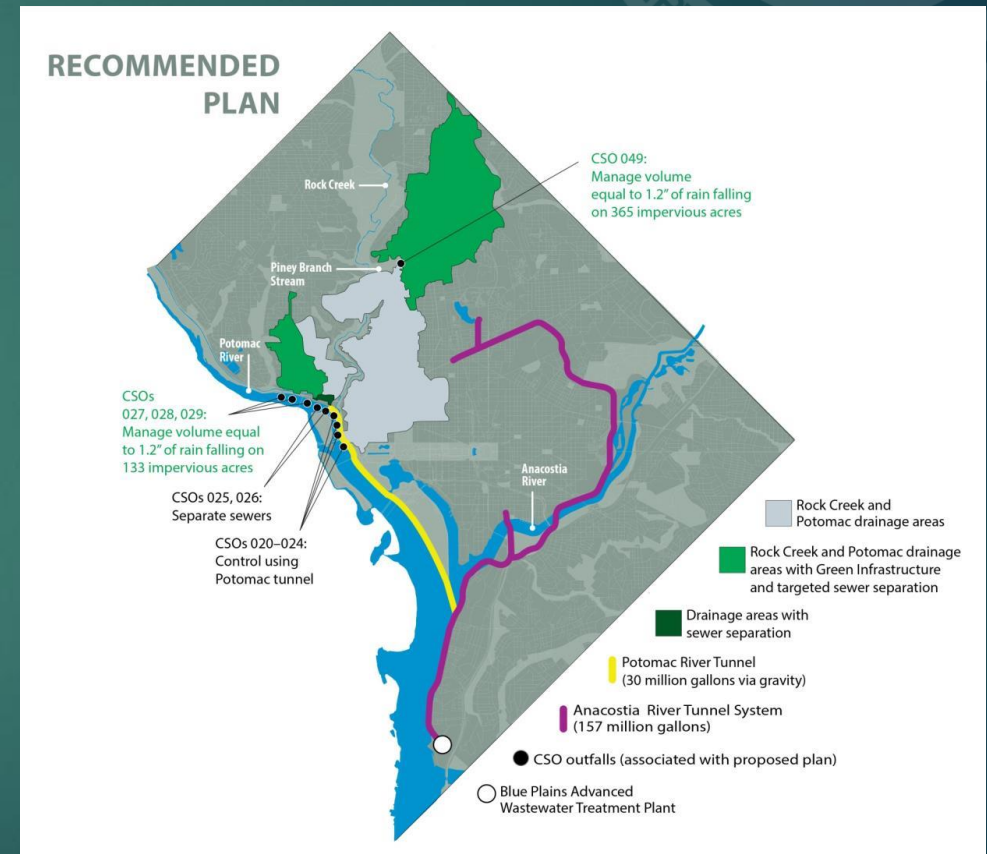
Objectives of NGICP



- ▶ 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



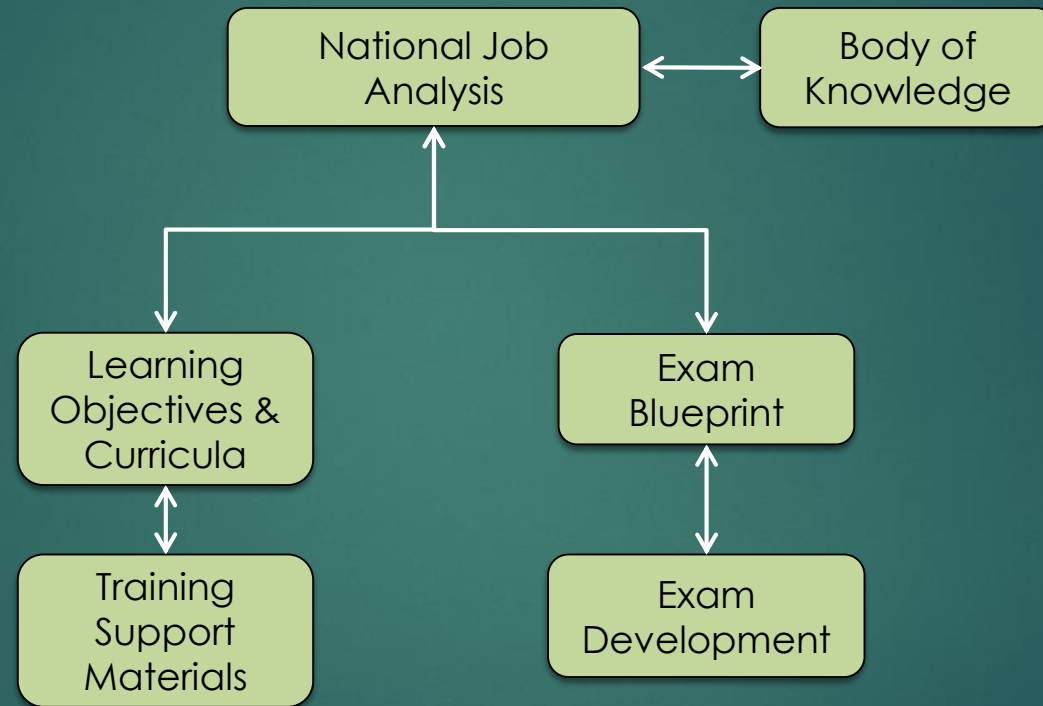
- ▶ WEF and DC Water initiated the certification development in January 2016
- ▶ At the same time, we reached out to potential partner organizations across the US
- ▶ Partners have committed financial and technical resources to support the development of the NGICP

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

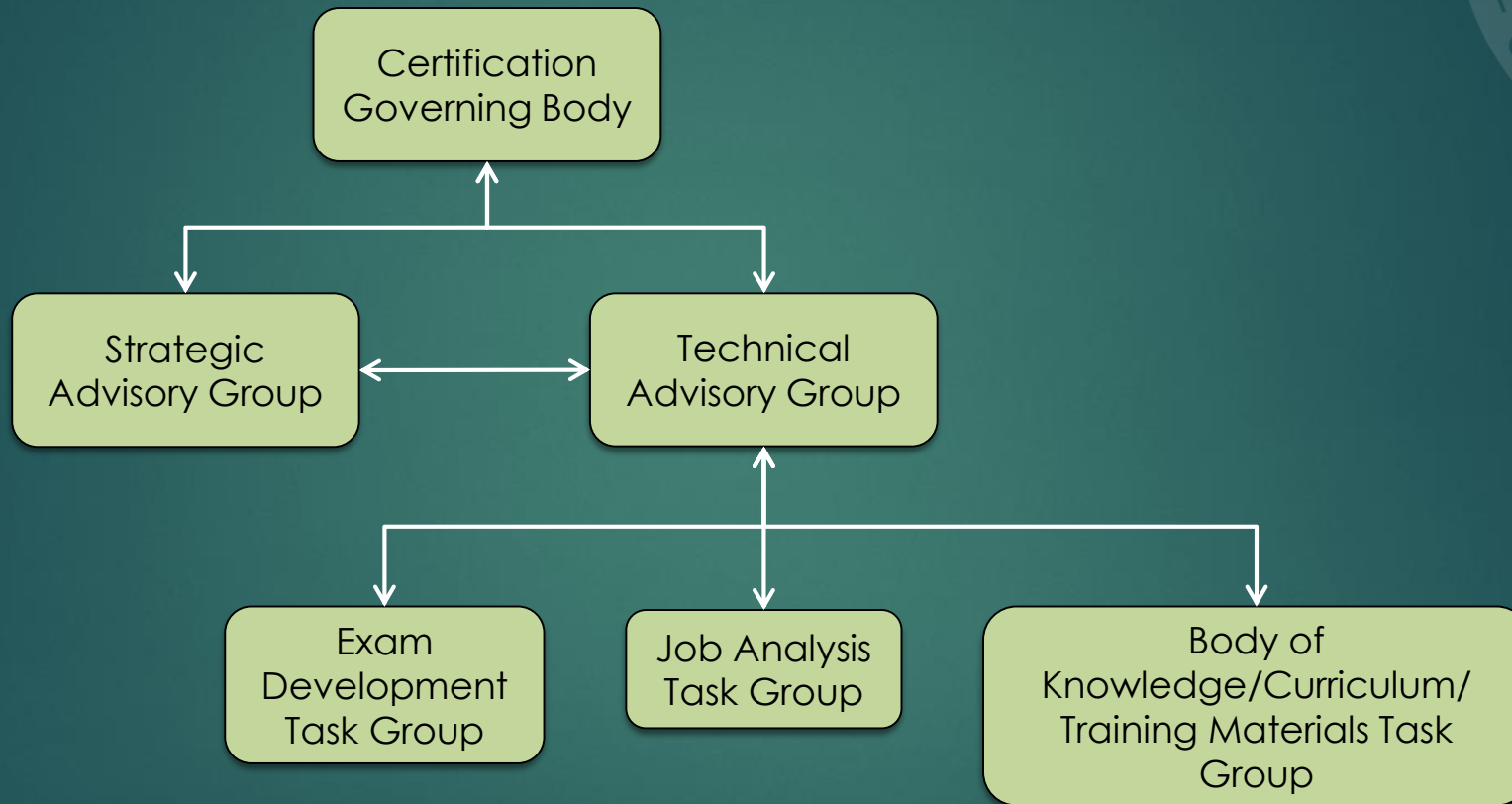


Simplified Development Process



Job Analysis: defines the knowledge workers need to properly install, maintain and inspect GI.

Organizational Chart



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

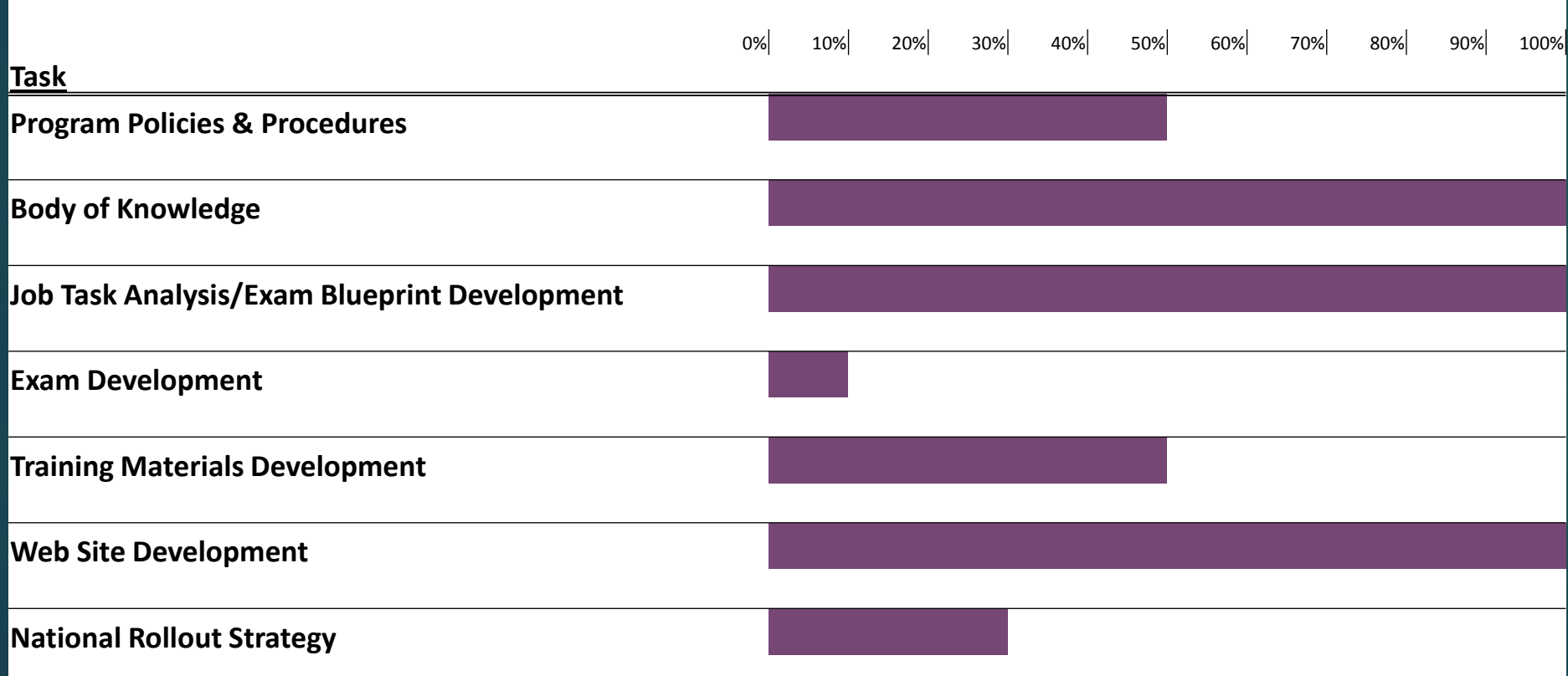


- ▶ Job Analysis Survey closed May 27th
 - ▶ 128 participants
 - ▶ Represent 24 states, District of Columbia and Guam
- ▶ Exam blueprint has been approved as of 7/15/16
- ▶ Governing Body is working on Program policies and procedures
- ▶ Web site launched on 7/18/16 – www.ngicp.org
- ▶ Body of Knowledge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

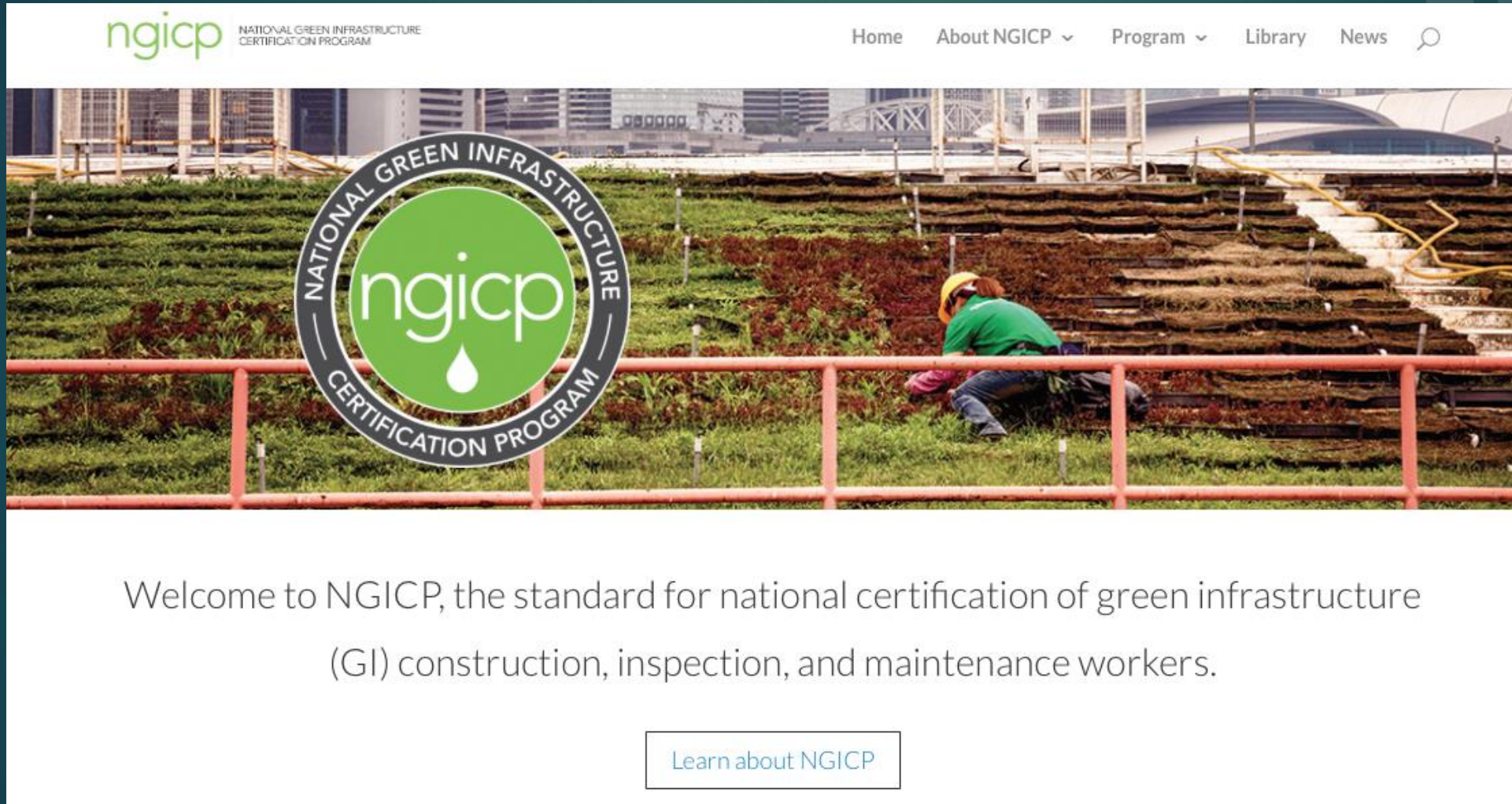
Status of Program Components



Green Infrastructure Certification Program Development Schedule



Web Site – www.ngicp.org



Body of Knowledge



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.)

