<table>
<thead>
<tr>
<th>Name of survey program</th>
<th>Name of agency</th>
<th>STW relevance</th>
<th>STW gaps</th>
</tr>
</thead>
<tbody>
<tr>
<td>American Community Survey (ACS)</td>
<td>Census</td>
<td>Includes education attainment, occupation, field of bachelor’s degree, industry.</td>
<td>• Missing questions on certifications, licenses, or training.</td>
</tr>
</tbody>
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| Survey of Income and Program Participation (SIPP) | Census                              | • 2012 wave had extensive series of questions on certifications, licenses, and certificates; nationally representative of general population (age 18 and older).  
• Provides good model of survey questions in a longitudinal survey. | • Only fielded once, more current data needed.  
• Need information on employer training and apprenticeships.                                            |
| Current Population Survey (CPS)               | Bureau of Labor Statistics          | Starting in 2015, the CPS includes a short series of questions on certifications and licenses.          | • No questions on certificates or apprenticeships.  
• Sample is too small for detailed occupational/industry estimates.  
• Using the data is problematic as standard errors cannot be calculated with the information currently provided by BLS. |
| O*NET                                          | US Department of Labor               | • Extensive detail on worker attributes and job characteristics for over 1,000 occupations including “new and emerging” occupations.  
• Useful resource for determining which occupations are skilled technical.                                | Not designed to be used for measuring or analyzing the skilled technical workforce.                   |
| Adult Training and Education Survey (ATES)    | National Center for Education Statistics | • Extensive series of questions on certifications, licenses, and certificates as well as work experience programs.  
• Survey questions are useful model of relevant STW questions.                                          | • Was a module of the National Household Education Surveys program.  
• Fielded only once in 2016, with no current plans to field it again.  
• The sample size is relatively small for detailed analysis.                                                |
| National Assessment of Adult Literacy and Program for the International Assessment of Adult Competencies (NALS) | National Center for Education Statistics | The survey asked a series of training and certification questions.                                         | This survey has been superseded by the PIAAC (see next data source).                                    |
| Program for the International Assessment of Adult Competencies (PIAAC) | National Center for Education Statistics | The survey asks an extensive series of training and certification questions.                             | • Relatively small sample  
• Lacks specific information on STEM-related certifications, licenses, and certificates.  
• Designed to be comparable to international surveys - not all concepts are comparable to U.S. surveys. |
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| Education Longitudinal Study of 2002 (ELS: 2002)     | National Center for Education Statistics            | The 2012 wave had a series of questions on certifications and licenses.       | • These data provide minimal information on certifications and licenses, and relevant questions.  
• One wave only.  
• The sample is not the U.S. general population. |
| High School Longitudinal Study of 2009 (HSLF:09)     | National Center for Education Statistics            | The 2016 follow-up wave asked a short series of questions on certifications and licenses. | • These data provide minimal information on certifications and licenses, and relevant questions.  
• One wave only.  
• The sample is not the U.S. general population. |
| National Survey of College Graduates (NSCG)          | National Center for Science and Engineering Statistics | Starting in 2017, the NSCG asked an extensive series of questions on certifications and licenses for individuals with a bachelor’s and above. | • The sample is not the U.S. general population. |