



*Association of Professional Geoscientists of Nova Scotia*

*Applicant Academic Self-Assessment Worksheet*



## **Association of Professional Geoscientists of Nova Scotia (APGNS)**

### **Applicant Assessment – Worksheet Tool**

(based on the Geoscience Knowledge and Experience Requirements  
for Professional Registration in Canada)

Page 2

#### **HOW TO USE THIS APPLICANT SELF-ASSESSMENT WORKSHEET TOOL**

The applicant assessment worksheet tool has been developed by the APGNS Admissions Board (the ‘Board’) to document and evaluate an applicant’s academic training. On completion of the Board’s evaluation and recommendations, it will be retained as part of the applicant’s official application / registration file.

Individuals wishing to apply for professional geoscience registration by APGNS may use this assessment worksheet tool to document their academic training in support of their application for registration. Users should refer to the **APGNS Applicant Assessment - Academic Requirements Guide** for a detailed description of academic courses.

If the applicant concludes that they have met the academic requirements then they are encouraged to apply for professional registration. The application for registration form, as well as the **Geoscience Knowledge and Experience Requirements for Professional Registration in Canada** (GKE), are available for download from the APGNS website ([www.geoscientistsns.ca](http://www.geoscientistsns.ca)) or contact the Registrar ([registrar@geoscientistsns.ca](mailto:registrar@geoscientistsns.ca)) or 902-420-9928 for assistance.

The Registrar will compile all the submitted application materials, including the application form, the official academic transcripts (obtained directly from the academic institution), the professional / character references, the required application and assessment fees, and any other supporting materials (copies of abstracts, academic course descriptions, letters of support, *etc.*), and submit the package to the Admissions Board for evaluation.

The Board will review the application file and make a recommendation to Council regarding acceptance or rejection of the application. If deficiencies are identified by the Board, remedial action will be recommended. If it is determined by the Board that the applicant meets the academic requirements but not the practical geoscience work experience requirement, he/she may be recommended for registration as a Member-in-Training (MIT). Registration as an MIT allows the individual to legally work on geoscience projects, under supervision, and gain the required experience (see also the **APGNS MIT Program Guide**). If the applicant is missing one or more (up to three) academic requirements, the Board may recommend that the Registrar hold the application file as ‘pending’ to allow the applicant the time required to complete the missing academic requirement(s).

This worksheet is provided as a tool, for the applicant to evaluate their academic training, relative to the academic requirements for professional registration, and to assist the applicant in demonstrating to the Board that they have achieved the academic requirements necessary for professional geoscience registration.

Applicants are encouraged to complete the self-assessment worksheet in order to identify any potential gaps in their academic training and to address them, either by identifying alternatives that they may have already completed or by identifying additional courses to be completed.

## Association of Professional Geoscientists of Nova Scotia (APGNS)

### Applicant Assessment – Worksheet Tool

(based on the Geoscience Knowledge and Experience Requirements  
for Professional Registration in Canada)

Page 3

Applicants are encouraged to submit a copy of the completed self-assessment worksheet tool along with their application for professional geoscience registration, in order to indicate to the Board what they believe have fulfilled the academic requirements. Therefore, this self-assessment tool should be completed by potential applicants as accurately and honestly as possible, using guidance from this document to determine what parts of their educational background might qualify for admission into the geoscience profession.

#### *Notes:*

- 1. Completion of the applicant self assessment worksheet tool is NOT a requirement of the application for registration, however, it is recommended and it may be included with the application as a supporting document. The results of this worksheet tool will NOT be binding on the Admissions Board.*
- 2. Application and assessment fees and service charges are not refundable.*
- 3. For applicants who have received their academic training outside Canada, it is recommended that, as part of the application, as much additional information detailing their academic training and background as possible or available should be included. This would include, but not be limited to, official course descriptions and/or syllabi, calendar descriptions, graduation documents, third party credential evaluations, etc.).*
- 4. The APGNS application for professional registration form includes the following declaration: “I declare that the statements made on this form are true and correct to the best of my knowledge and belief. I understand that any false or misleading statements, willful omissions or misrepresentations on this form shall be considered as sufficient cause for refusal of admission and/or registration to or dismissal from the Association.”*

### DISCLAIMER

#### *To the users of this tool:*

*This Applicant Assessment Worksheet Tool has been developed, is published and distributed by the Association of Professional Geoscientists of Nova Scotia (APGNS) to assist the Admissions Board. It is also made available to applicants for professional geoscience registration in the evaluation of their academic training.*

*Persons relying on this tool should be aware that it is intended as an aid and a reference and that it does not constitute a guarantee of professional registration.*

*In all cases, the applicant or candidate for professional registration bears the onus and sole responsibility of meeting the requirements for professional registration to the satisfaction of APGNS.*

**Association of Professional Geoscientists of Nova Scotia (APGNS)**

**Applicant Assessment – Worksheet Tool**

(based on the Geoscience Knowledge and Experience Requirements  
for Professional Registration in Canada)

Page 4

**Step 1. Identification**

The three (3) “streams” of professional geoscience registration in Nova Scotia are:

- Geology,
- Environmental Geoscience, and
- Geophysics.

Each stream requires minimum total of 27 EU’s:

- 3 EU’s are required from Compulsory Foundation Science (Group 1A);
- 6 EU’s are required from Additional Foundation Science (Group 1B);
- 4 EU’s are required from Compulsory Foundation Geoscience (Group 2A);
- 5 EU’s are required from Additional Foundation Geoscience (Group 2B); and
- 9 EU’s are required from Other Geoscience / Science (Group 2C).

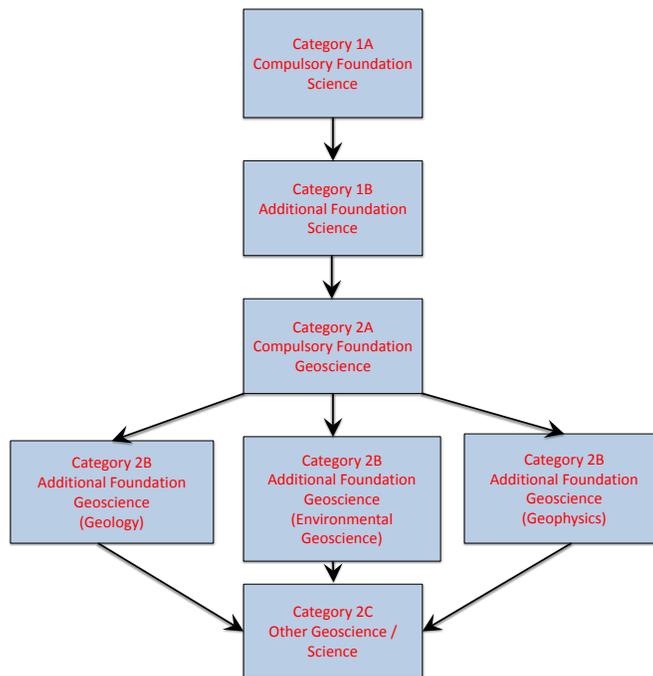
*Note: This applicant assessment self-assessment worksheet tool is effective as of October, 2015 and it supersedes all previous versions.*

<b>Part I - Applicant / Application Information</b>	
<b>Date</b>	
<b>Full Name</b>	
<b>Application Category</b> Member (P.Geo) Member-in-Training (MIT) License to Practice (LTP)	
<b>Geoscience Stream</b> Geology Geophysics Environmental Geoscience	

**Association of Professional Geoscientists of Nova Scotia (APGNS)**  
**Applicant Assessment – Worksheet Tool**  
(based on the Geoscience Knowledge and Experience Requirements  
for Professional Registration in Canada)

**Step 2. The path to professional registration.**

The academic requirements for professional geoscience registration, which are specific to each ‘stream’, as well as the path which must be followed to acquire the academic training for each registration stream are summarized in the figure below. A detailed description of the academic requirements for each educational unit (EU) is available in the APGNS Academic Requirements Guide, available as a companion to this worksheet.



**Figure 1. Summary of the path to professional geoscience registration – academic requirements and the three ‘streams’ of professional practice.**

**Association of Professional Geoscientists of Nova Scotia (APGNS)**  
**Applicant Assessment – Worksheet Tool**  
 (based on the Geoscience Knowledge and Experience Requirements  
 for Professional Registration in Canada)

<b>Part II - Required Geoscience Knowledge</b>	
<b>Requirement</b>	<b>Applicant's Record</b>
<p><b><u>Category 1 – Foundation Science</u></b>  <b>All Streams</b>  <b>Group 1A – Compulsory Foundation Science, &amp;</b>  <b>Group 1B – Additional Compulsory Foundation Science</b>  <b>(total of 9 EU's required)</b></p>	<p><b>Note: These requirements, Foundation Science (1A and 1B), are common to the Geology, Environmental Geoscience and Geophysics Streams.</b></p> <p><b>1 EU = 1 semester, 13 week, or term course</b></p>
<p><b>Group 1A.</b>                      Chemistry                       Mathematics                       Physics</p>	<p><b>Total of 3 EU's are required - 1 EU in each subject</b></p> <p>1 .....</p> <p>2 .....</p> <p>3 .....</p>
<p><b>Group 1B.</b>                      Biology                       Chemistry                       Computer Programming                       Mathematics                       Physics                       Statistics</p>	<p><b>Total of 6 EU's are required - no more than 2 in any subject</b></p> <p>1 .....</p> <p>2 .....</p> <p>3 .....</p> <p>4 .....</p> <p>5 .....</p> <p>6 .....</p>

**Proceed to either the Geology Stream Group 2A and 2B, or to the Environmental Geoscience Stream Group 2A and 2B, or the Geophysics Stream, Group 2A and 2B.**

**Association of Professional Geoscientists of Nova Scotia (APGNS)**

**Applicant Assessment – Worksheet Tool**

(based on the Geoscience Knowledge and Experience Requirements  
for Professional Registration in Canada)

Page 7

**Association of Professional Geoscientists of Nova Scotia (APGNS)**

**Applicant Assessment – Worksheet Tool**

(based on the Geoscience Knowledge and Experience Requirements  
for Professional Registration in Canada)

<p><b>Geology Stream</b>  <b>Group 2A - Compulsory Geoscience; Group 2B - Additional Geoscience and Group 2C - Other Geoscience</b>  <b>total of 18 EU's required - 1 EU = 1 semester, 13 week or term course</b></p>	
<p><b><u>Category 2 – Foundation Geoscience</u></b>  <b>Geology Stream (Only)</b>  <b>Group A – Compulsory Geoscience</b>  <b>Group B – Additional Geoscience</b>  <b>Group C – Other Geoscience</b>  <b>(total of 18 EU's required)</b></p>	
<p><b>Group 2A.</b>  Field Techniques  Mineralogy and Petrology  Sedimentation and Stratigraphy  Structural Geology</p>	<p><b>Total of 4 EU's are required - 1 EU in each subject</b></p> <p>1 .....</p> <p>2 .....</p> <p>3 .....</p> <p>4 .....</p>
<p><b>Group 2B.</b>  Geochemistry  Geophysics  Igneous Petrology  Metamorphic Petrology  Sedimentary Petrology  Sedimentology  Glacial Geology or Geomorphology  Remote Sensing</p>	<p><b>Total of 5 EU's are required - minimum of 1 &amp; at most 2 from each sub-group, but no more than 1 in each subject</b></p> <p>1 .....</p> <p>2 .....</p> <p>3 .....</p> <p>4 .....</p> <p>5 .....</p>

**Association of Professional Geoscientists of Nova Scotia (APGNS)**

**Applicant Assessment – Worksheet Tool**

(based on the Geoscience Knowledge and Experience Requirements  
for Professional Registration in Canada)

<b>Environmental Geoscience Stream</b> <b>Group 2A - Compulsory Geoscience; Group 2B - Additional Geoscience and Group 2C - Other Geoscience</b> <b>total of 18 EU's are required; 1 EU = 1 semester, 13 week or term course</b>	
<p><b>Group 2A.</b> Field techniques</p> <p>Mineralogy and Petrology</p> <p>Sedimentation and Stratigraphy</p> <p>Structural Geology</p>	<p><b>Total of 4 EU's are required - 1 EU in each area required</b></p> <p>1 .....</p> <p>2 .....</p> <p>3 .....</p> <p>4 .....</p>
<p><b>Group 2B.</b> Geochemistry Geophysics</p> <p>Hydrogeology or Hydrology</p> <p>Geomorphology or Soil Science Glacial Geology Remote Sensing</p>	<p><b>Total of 5 EU's are required - minimum of 1 &amp; at most 2 from each sub-group, but no more than 1 in each subject</b></p> <p>1 .....</p> <p>2 .....</p> <p>3 .....</p> <p>4 .....</p> <p>5 .....</p>

**Association of Professional Geoscientists of Nova Scotia (APGNS)**

**Applicant Assessment – Worksheet Tool**

(based on the Geoscience Knowledge and Experience Requirements  
for Professional Registration in Canada)

<b>Geophysics Stream</b> <b>Group 2A - Compulsory Geoscience; Group 2B - Additional Geoscience and Group 2C - Other Geoscience</b> <b>total of 18 EU's required - 1 EU = 1 semester, 13 week or term course</b>	
<p><b>Group 2A.</b> Field techniques</p> <p>Mineralogy and Petrology</p> <p>Sedimentation and Stratigraphy</p> <p>Structural Geology</p>	<p><b>Total of 4 EU's are required - 1 EU in each area required</b></p> <p>1 .....</p> <p>2 .....</p> <p>3 .....</p> <p>4 .....</p>
<p><b>Group 2B.</b> Digital Signal Processing</p> <p>Global Geophysics / Physics of the Earth</p> <p>Seismology / Seismic Methods</p> <p>Exploration Geophysics</p> <p>Radiometrics / Gravity &amp; Magnetism</p> <p>Electrical &amp; Electromagnetic Methods</p>	<p><b>Total of 5 EU's are required - minimum of 1 &amp; at most 2 from each sub-group, but no more than 1 in each subject</b></p> <p>1 .....</p> <p>2 .....</p> <p>3 .....</p> <p>4 .....</p> <p>5 .....</p>

**Proceed to the Geology, Environmental Geoscience or Geophysics Stream Group 2C.**

**Association of Professional Geoscientists of Nova Scotia (APGNS)**

**Applicant Assessment – Worksheet Tool**

(based on the Geoscience Knowledge and Experience Requirements  
for Professional Registration in Canada)

**Geology, Environmental Geoscience and Geophysics Stream**

**Group 2C – Other Geoscience**

**Note: these requirements (Group 2C) are common to the Geology, Environmental Geoscience and Geophysics Streams.**

**total of 9 EU's required - 1 EU = 1 semester, 13 week or term course**

**Group 2C.**

Other Geoscience / Science (see the GKE document for a suggested list); minimum total of 9 EU's; note: extra EU's from A & B can be used in C; must be at a second level or higher acceptable for science credit toward a degree and relevant to geoscience.

**Minimum total of 9 EU's are required - no one single EU course can be used to cover more than one requirement; EU's must be chosen from at least 4 subject areas**

1 .....

2 .....

3 .....

4 .....

5 .....

6 .....

7 .....

8 .....

9 .....