**Curriculum Renewal:**

**Analysis and Action Plan Template 2014/15**

| **Program Coordinator:**  | **Steve Wilkinson** | **School:** | **SENRS** |
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| **Program Code:** | **RDB** | **Date Completed:** |  **June 11, 2015** |
| **Program Name:**  | **Resource Drilling and Blasting** |

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| **A. Analysis of Indicators**Note: data is **not** recorded in this section of the template.**Reflect on, and discuss, the following indicators in the context of the curriculum and program:**   |
| 1. **Industry / Sector Trends**
	1. Identify any new or emergent *industry or sector* related issues and trends over the past year that will impact your program?
* ***Well Regulation 903 under review and comments due by end April, 2015***
* ***Construction drilling trying to implement new regulations, this will affect the industry, different levels of crane licence will be required***
* ***Mining industry completely flat, HDD larger pipeline projects on East Coast. Micro-tunneling is taking off, lots of opportunities in this industry. Only a few Canadian companies doing this work, mostly European companies coming over to do the work instead***
* ***Huge opportunities in Geo-Tech and construction***
* ***India is a goldmine for workers, off-shore work is completely flat, waiting for oil to go back up to $65.00 a barrel***
	1. What are the Advisory Committee recommendations from the past year that will affect the positioning, nature, or scope of your program?
* ***None***
	1. What information / observations have been generated via faculty and staff professional development, engagement in sectoral and profession associations, or involvement in community and employer networks connected to the field?
* ***Steve W. visited China with other faculty delegates to meet with the Chinese faculty and gather information about their programs, curriculum, resources and potential pathways for students. The Chinese faculty will be visiting Frost campus in September to further this initiative.***
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| **2. Curriculum Development*** 1. Identify any curriculum changes in the last year such as changes in course content and course materials, course / program outcomes, innovative delivery approaches, and/or assessment practices.
* ***A Construction Drilling course was added to Semester 4 due to the increase in activity in the construction drilling industry. This course replaced Quarry Camp – Blasting because of the SBL certificate program. Industry will hire a SBL graduate over a RDB graduate for this type of work and many of the SBL students pathway into RDB.***
* ***Rock Studies I and II were combined because the curriculum content was very similar and by combining the courses the pathway from SBL to RDB was improved.***
* ***The Well Construction course now concentrates on the use of a rotary drill rather than the cable tool. The Air Rotary Drilling course now replaces the Waterwell Drilling course. These changes were made to reflect the equipment now used in the industry.***
	1. Does the current curriculum align with the college’s e-learning strategy which strives to have all Fleming graduates experience technology enhanced learning in each semester of their program? Identify courses where possible.
* ***Some program course content is placed in D2L. I-clickers are used in some program courses. Students are encouraged to use the Internet to find information on parts, MOE well records, etc.***
	1. Does the current curriculum align with the College’s Strategic Plan to *“infuse sustainability across the curriculum and across the student experience so that graduates understand and address sustainability issues.” (Goal 3.3)* Please identify which courses/experiences in the students’ program that sustainability issues are addressed.
* ***In the Air Rotary and Well Construction courses, mud recovery system is taught and used in lab to teach environmental and economic sustainability practices.***
* ***In Rig Maintenance proper disposal and use of materials is taught and in Environmental Drilling regulations on hole abandonment is taught to MOE regulations for environmental protection.***
	1. Identify any recent or anticipated initiatives that promote student pathways including partnerships with high schools, program laddering, university transfer / articulations, or continuing education?
* ***Steve W. visited China with other faculty delegates to meet with the Chinese faculty and gather information about their programs, curriculum, resources and potential pathways for students. The Chinese faculty will be visiting Frost campus in September to further this initiative.***
* ***SBL pathway into RDB has been improved and cap has been removed.***
	1. Identify any new competitor programs and/or re-positioning of existing programs?
* ***none***
	1. Identify if there are any new or changing provincial standards, standards for accreditation, credentials, and / or industry or sector certifications over the past year?
* ***none***
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| **3. Applied Learning*** 1. Does the current program contain a discrete Applied Learning opportunity for students? If yes, which category of Applied Learning is fulfilled?

\_**X**\_ Field Work (Indirect Supervision)\_**X**\_ Field Work (Direct Supervision)\_\_\_ Co-op\_\_\_ Applied Project / Applied Research Project * 1. If the answer to 3.1 is no, are there plans to create a discrete Applied Learning opportunity for students within this program? Why or why not?
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| **4. Student and Graduate Satisfaction**4.1 Comment upon this year’s Key performance indicators (KPI # 4, 8, 9, and 11) regarding student and graduate satisfaction (\*reference Fleming Data Research website)

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| **KPI**  | **Program** | **College** | **System** |
| **KPI # 4 Graduate Satisfaction with Generic and Vocational Learning Outcomes – 2012/2013** | 21(N), 92.24(%) | 925(N), 86.07(%) | 925(N), 86.07(%) |
| **KPI # 8 Student Satisfaction with Learning Experience – Winter 2014** | 74(N), 92.31(%) | 3730(N), 82.58(%) | 3730(N), 82.58(%) |
| **KPI # 9 Student Satisfaction with Teachers – Winter 2014** | 22(N), 69.23(%) | 3730(N), 73.92(%) | 3730(N), 73.92(%) |
| **KPI # 11 Graduate Satisfaction with Program - 2012/2013** | 28(N), 90.45(%) | 1513(N), 82.66(%) | 1513(N), 82.66(%) |

***KPI’s 4, 8 and 11 are higher than both the college and system. KPI 9 – Satisfication with Teachers is slightly lower than the college average.***4.2 Review and discuss student retention on a semester by semester basis over the past year.**According to the most recent data, in 2013, the retention rate was 87% from semester 1 to 2. In 2012, the retention rate was 75% from semester 2 to 3 and 91% from semester 3 to 4.**  |
| **B. Curriculum Strengths and Challenges** Summarize the curriculum strengths and challenges identified by the team.  |
| **Curriculum Strengths** * **Relevant “hands on” training**
* **Faculty comprised of graduates of the program and all have worked in the industry for over 10 years**
* **PAC and industry support**

**Curriculum Weaknesses*** **Increasing cost of supplies and equipment**
* **Maintenance costs of aging equipment**
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| **C. Action Plan**Identify priority actions for the next year and the rationale for their inclusion. For each, indicate the project lead, and the proposed timelines for completion. **What resources are required to complete the action plan, i.e., software, equipment, and training?**  |
| * **Steve W. will investigate use of I-pads for equipment and safety operation evaluation. If financially feasible would like to implement for September 2015. Implementation will require training of technicians and faculty and involvement of Tully/Terry (CLT).**
* **Steve W. will continue to work with Karen M. to acquire a Geo Probe to teach newer methods in environmental sampling. This tool will need to be incorporated mainly in Environmental Drilling and Geotechnical Drilling courses. If acquired, implementation will occur as soon as possible.**
* **Continue to revise Sem 3 and 4 courses with CLT to update learning outcomes and assessments.**
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| **D. Deferred Actions**Record any issues that will need to bemonitored, researched, or deferred for future action. |
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| **E. Attach an updated Program Curriculum Map to your report**  |
| Please file an updated Program Curriculum Map in folder named Program Curriculum Map.: **S:\shared data\CLT\School Name\Program Name\Program Curriculum Map** |