



**RED RIVER COLLEGE**  
OF APPLIED ARTS, SCIENCE AND TECHNOLOGY

**Collision Repair and Refinishing**  
**Curriculum Validation – Program Renewal**

**Final Report**

**June 2010**

**Submitted to:**

Neil Cooke, Chair, Transportation, Math and Science



## Acknowledgements

The Collision Repair and Refinishing Program at Red River College wishes to express its appreciation for the support and commitment shown throughout this Curriculum Validation - Program Renewal process by the following:

### Representatives from the community:

Alistair Ross	Autobody Journeyperson, Maxim Trucks
Dave Hill	Autobody Journeyperson, Murray Chev Hummer
Ken Brick	Owner/Operator, Ken Brick Custom
Grant Balous	Owner/Manager, Manitou Autobody
Ed Debeuckelaebe	Owner, E.S.O. Enterprises
Jessy Unrau	Bodyperson and Painter, Niv Auto
Brian Libby	Painter, Clear Col

### The Collision Repair and Refinishing Advisory Committee:

Dave Mack	All Star Collision & Glass
Norm Phillippe	Manitoba Public Insurance
Denis Pinette	Manitoba Public Insurance
Rob Hammerling	Arlington Auto Body Ltd.

### The Collision Repair and Refinishing Faculty:

Brad Dusik  
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### Curriculum Validation – Program Renewal Project Team

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## ***Collision Repair and Refinishing Curriculum Validation – Program Renewal Final Report***

### ***Introduction***

The Collision Repair and Refinishing program provides a basic working knowledge of all areas of metal working and spray painting. Students will develop the skills and knowledge required to repair damaged vehicles, including all phases of autobody repair and painting. Students will learn to weld, use trade tools, and will develop the skills to work with and shape sheet metal, as well as the techniques required to realign and straighten the body and frame of cars. The program also teaches proper methods of patching, finishing, and preparing a panel for paint application. Students will learn to estimate as well as perform repairs or replacements needed to restore vehicles to their pre-damaged condition.

The program is a one year certificate program with a September entry date. There are two mandatory work placements and upon completion of the program, students can earn credit toward the Body Repairer or Body Repairer (Paint) apprenticeship. The program is currently being offered at the Notre Dame campus.

In 2009/10, the Dean and Chair requested a Curriculum Validation-Program Renewal to address the changing needs of industry. In an effort to respond to those changing needs, the Program Renewal process addressed six major areas for renewal - curriculum, student recruitment and retention, in-industry training, faculty development, facilities and equipment and budget - the outcome of which is a five-year program renewal plan.

### ***Curriculum Validation - Program Renewal Deliverables:***

The Collision Repair and Refinishing Curriculum Validation process involved 7 interrelated deliverables:

1. Environmental Scan and Analysis of the key findings of similar programs across Canada.
2. Industry Occupational Analysis (DACUM)
3. Graduate Skills and Abilities Chart
4. Graduate Profile
5. Program Renewal Plan
6. A 5-year Program Renewal Plan in Gantt Chart format
7. Final Report

## ***Outcomes from the Deliverables:***

### **1. Environmental Scan and Key Findings**

The Environmental Scan provides the faculty and chair with information about similar programs that are offered in Colleges and Universities locally and nationally. The Curriculum Validation facilitator gathered information on similar programs and trends influencing their development and direction. The information was gathered by the Curriculum Validation Facilitator through web sites, email and telephone contact. The scan gathered information under the following categories:

- Name of institution, location, contact person
- Size of program
- Credential offered
- Program features
- Curriculum Model
- Curriculum Content
- Student Assessment
- Current and Coming Challenges
- Curriculum Renewal
- Partnerships
- Additional Information (Other and comments)

For the Collision Repair and Refinishing Curriculum Validation - Program Renewal, nine (9) programs were scanned. They included:

- Red River College – **Collision Repair and Refinishing** (Winnipeg, MB)
- Algonquin College – **Collision Repair** (Ottawa, ON)
- Centennial College – **Autobody Repair Techniques** (Toronto, ON)
- Fanshawe College – **Autobody Collision Repairer Pre-Apprenticeship Program** (London, ON)
- Northern Alberta Institute of Technology (NAIT) – **Autobody Technician, Pre-Employment** (Edmonton, AB)
- New Brunswick Community College – **Motor Vehicle Body Repairer and Painter** (St John, NB)
- Okanagan College – **Automotive Collision Repair/Painting & Refinishing** (Kelowna, BC)
- Saskatchewan Institute of Applied Science and Technology (SIAST) – **Autobody Technician** (Saskatoon SK)
- Vancouver Community College – **Automotive Collision Repair Technician** (Vancouver, BC)



## **Entrance Requirements and Credentials Awarded**

Pre-requisites for entering programs range from Grade 10 to 12 including Basic Math, Communication and English. Fanshawe, NAIT and Vancouver Community College (VCC) have an additional selection process which may include pre-testing in Mechanical Aptitude or a Test of Workplace Essential Skills (TOWES), and an interview. Colleges having additional selection criteria agree that that it leads to lower attrition. All programs offer a certificate upon completion of the program. However, Algonquin offers Apprenticeship training only. RRC, Fanshawe, Okanagan, NAIT and VCC are accredited by their Departments of Education or Apprenticeship directives and are based on their own provincial guidelines.

## **Program Length and Curriculum**

Program length ranges from 30 weeks at SIAST to 40 weeks at NBCC. At 12 weeks in length the program at NAIT is the exception, but it does not offer courses in Math, Science, and Communications. RRC offers 90 hours of instruction in related Math, Science and Communications over an 8 month period.

Graduation criteria range from 50% to 73%, with 60% being the most common. All colleges expressed dissatisfaction with having the letter grade of "C" set as their minimum pass mark and indicated that it should be set higher.

Most colleges deliver curriculum using traditional classroom methods. Okanagan has offered courses via distance education but found these courses less successful and have gone back to traditional methods. Vancouver is currently piloting online and distance delivery for some theory courses. There was no distance or online practical training reported being offered by any of the colleges that were scanned.

## **Experiential Learning**

All schools except Centennial and Okanagan offer a work practicum component which ranges from two weeks to eight weeks. NAIT's work practicum is offered at the end of each of four training blocks (Detailing, Body, Prep. and Paint) and the practicum is focused on the content covered in each of these blocks.

## **Partnerships**

Most colleges have partnerships with industry and high schools. RRC uses I-CAR training material to keep staff current with industry. Most of the colleges identified the importance of I-CAR training to meeting the needs of industry and to keeping instructors current.

Upon employment as an apprentice, graduates of RRC may be granted up to one level of in-school training towards the Body Repairer or Body Repairer (Paint) apprenticeship.

Graduates of the other programs must challenge to receive Level 1 apprenticeship standing by writing a test. RRC's program is the only one that is accredited for both Body and Paint. The other colleges separate the Body and Paint designations in order to be accredited in their provinces. As a result, students wanting to pursue apprenticeship training in Painting at the other colleges must take a separate Paint program.

## **Challenges**

Most colleges report that it is difficult for them to maintain existing equipment and to purchase the new equipment required to meet Federal and Provincial legislation in regards to lowering the volatile organic compounds found in products used in the industry, recycling waste products, (active) passive restraint systems, sandblasting, parts recycling/disposal, and refrigerate reclaiming.

Algonquin is facing a possible program closure because of diminishing numbers of students.

VCC is dealing with marketing issues pertaining to sustaining distance and on-line training as they are very expensive to deliver and maintain.

RRC is finding it more difficult to attract the numbers of prospective students required to replace retiring workers in industry.

## **2. Industry Occupational Analysis (DACUM) Chart**

The Industry Occupational Analysis using the DACUM process is a familiar component of the curriculum development process at Red River College and provides the program with a description of regional occupational needs. Included in the process is the identification of emerging and retiring industry trends.

Gene Semchych and Sandra Sukhan facilitated the Collision Repair and Refinishing DACUM workshop on December 15 and 22, 2010. Seven (7) expert practitioners in the Collision Repair and Refinishing trade were asked to identify retiring and emerging trends in the industry as well as the major competencies and related skills that are required by entry-level workers in the field. Participation was equally balanced between urban and rural practitioners.

The resulting Collision Repair and Refinishing DACUM identified the following emerging and retiring trends:

### **Emerging Industry Trends:**

- Water borne bases
- New equipment in painting and refinishing
- More uses of HSS
- Hybrid cars - safety
- Coolant and braking systems
- Framework - more accuracy
- Quality plastic replacement
- Safety
- Quality Control
- Zinc spray
- Computerization
- SMC's
- Induction heater

### **Retiring Industry Trends:**

- Less gas welding
- Less soldering and solder-based paints
- Body fillers
- Plastic repair
- Solvent-based paints
- Oxyacetylene

### **3. Graduate Skills and Abilities Chart**

Sandra Sukhan and Robert Richard facilitated the Graduate Skills and Abilities workshop, which was held on February 22, 2010. The faculty had an opportunity to review expectations of industry as identified in the DACUM chart. Having attended the two-day DACUM workshop as observers, faculty had a good sense of industry expectations. After a detailed review of all the competencies and related skills, the faculty made some changes to the chart based on the length of the program and the level of skills required for entry-level technicians.

The outcome of this workshop was a single, composite chart that outlines the graduate skills and abilities. The chart is the cross-referencing of: 1) the competencies identified in the Industry Occupational Analysis (DACUM) Chart and the College Wide Learning Outcomes (CWLOs), and 2) the teaching faculty's assessment of what would constitute realistic learning expectations of the program. This chart serves as the focus for curriculum renewal and the basis for the development of program learning outcomes.

### **4. Graduate Profile**

Sandra Sukhan and Robert Richard facilitated a faculty workshop to develop a Graduate Profile for the Collision Repair and Refinishing program. The Graduate Profile is a series of program learning outcome statements which are based on the *Graduate Skills and Abilities Chart*. The workshop was held on March 3, 2010.

### **5. Program Renewal Vision and Goals**

The Program Renewal Vision and Goals are based on the results of a half-day workshop which was held on March 17, 2010 with the faculty and the Chair. Utilizing the results of this workshop, the Curriculum Consultants in collaboration with the Curriculum Validation Facilitator and the Chair, created a vision statement along with goals and objectives that will guide the program renewal activities over the next five years. This vision and the goals are as follows:

**Vision:**

The Collision Repair and Refinishing program will be recognized as a leader in the provision of training that produces graduates who are prepared for employment in the autobody repair and painting industry and who can continue to develop their skills in the trade as an apprentice.

**Goals:**

The following goals were identified to realize this vision:

**Curriculum**

- Update the curriculum and evaluation practices to ensure that the graduates' skills and abilities meet industry's requirements for a new technician.

**Student Recruitment and Retention**

- Develop and/or improve student recruitment, and retention processes to ensure student success.

**In-Industry Training**

- Align student in-industry training experiences to industry standards and program outcomes.

**Faculty development**

- Increase opportunities for faculty to grow professionally.

**Facilities and Equipment**

- Request budget to ensure that the facilities and equipment that are available to the program are sufficient to achieve its vision.

**Budget**

- Request budget for the program so that it is sufficient to achieve its vision.

**6. Program Renewal Plan**

The program renewal plan is the result of translating the preceding five deliverables into a coherent plan for the renewal of the program. The Program Renewal Plan will serve as the basis for the improvement of the Collision Repair and Refinishing program. The Chair and faculty are committed to renewing the program over the next 5-year period.

The following tasks (and timelines) were identified for completion by the end of June 2015.

- Update the curriculum and evaluation practices to ensure that the graduates' skills and abilities meet industry's requirements for a new technician.
  - Establish a Curriculum Committee to guide the ongoing curriculum renewal process.

- Review all course outlines to ensure that there are standard learning outcomes and assessment practices for each course code. **(06/10 – 09/11)**
    - Review how/where the College-Wide Learning Outcomes are integrated into the curriculum to ensure that graduates leave the program with a clear understanding of the impact that their personal management skills have on their success in the workforce. **(01/11 – 09/11)**
  - Create more opportunities for students to master the practical skills by increasing the number of project-based work assignments. **(06/10 – 06/15)**
  - Work with the related Math, Science and Communications course instructors to increase the relevance of the content found in these courses to the core curriculum. **(09/13 – 06/15)**
  - In consultation with the Coordinator of related Math and Science courses, explore adopting the model used in the Heavy Duty Mechanic program. **(09/10 – 06/15)**
  - **Use *DesireToLearn*** to develop and deliver course content online. **(09/13 – 06/15)**
  - Use ***Mind Manager*** and ***Power Point*** to present the curriculum electronically. **(09/12 – 06/15)**
- Develop and/or improve student recruitment and retention process to ensure student success.
  - Raise the profile of the program and implement strategies to recruit prospective students.
    - Work with high schools to promote the program to their students. **(06/10 – 06/15)**
  - Implement strategies to increase the academic readiness of incoming students.
    - Work with Student Services to implement practices to assist incoming students with ensuring their academic readiness. These practices will be similar to what is currently followed for the Heavy Duty Equipment Mechanic and will include: **(09/10 – 06/15)**
      - administering the Canadian Adult Achievement Test (CAAT) to incoming students,
      - providing academic counselling to at-risk students,
      - referring at-risk students to academic skills “upgrading” opportunities, and
      - referring at-risk students to peer tutoring.
  - Develop student retention and completion strategies.
    - Continue to offer program information sessions to prospective students. **(06/10 – 06/15)**
    - Continue to offer program orientation sessions to incoming students. **(06/10 – 06/15)**

- Create an informational video that will be made available on the program's website to assist potential students with determining their suitability to enter the trade (e.g. working conditions, health considerations, employments opportunities and apprenticeship training). **(06/10 – 05/11)**
- Align student in-industry training experiences to industry standards and program outcomes.
  - Develop and/or revise evaluation checklists/task sheets for use by the in-industry training supervisor to assess the on-the-job performance of students. **(01/11 – 06/15)**
  - Consult with industry partners to determine the applicability of NAIT's in-industry training model to meeting the in-industry training requirements of the program. **(09/10 – 06/11)**
- Increase opportunities for faculty to grow professionally.
  - Introduce **5S** workplace organization methodology into the practical skill training of the program. **(09/10 – 06/15)**
  - Continue to arrange seminars for faculty on new products/equipment/industry practices. **(06/10 – 06/15)**
  - Work with Teacher Education to provide faculty with workshops/training related to developing assessment instruments/practices appropriate for evaluating practical skills (e.g. rubric development). **(09/10 – 06/15)**
- Ensure that the facilities and equipment that are available to the program are sufficient to achieve its vision. **(06/10 – 06/15)**
- Request budget for the program so that it is sufficient to achieve its vision. **(06/10 – 06/15)**

## ***Appendix A – Environmental Scan***

## Environmental Scan

	RRC	ALGONQUIN	CENTENNIAL	FANSHAWE
<b>College Address</b>	Red River College Z1-10 2055 Notre Dame Ave Winnipeg Manitoba R3H 0J9	Algonquin College Woodroffe Campus 1385 Woodroffe Ave Ottawa, Ontario K2G 1V8 (613) 727-4723	Centennial College P.O. Box 631, Station A Toronto, Ontario M1K 5E9	Fanshawe College London Campus 1001 Fanshawe College Boulevard P.O. Box 7005 London, Ontario N5Y 5R6
<b>Website</b>	<a href="http://me.rrc.mb.ca/Catalogue/ProgramInfo.aspx?RegionCode=WPG&amp;ProgCode=COLFF-CT">http://me.rrc.mb.ca/Catalogue/ProgramInfo.aspx?RegionCode=WPG&amp;ProgCode=COLFF-CT</a>	<a href="http://extraweb.algonquincollege.com/fulltime_programs/programOverview.aspx?id=0502X01FWO&amp;">http://extraweb.algonquincollege.com/fulltime_programs/programOverview.aspx?id=0502X01FWO&amp;</a>	<a href="http://www.centennialcollege.ca/Programs/ProgramOverview.aspx?Program=8405&amp;Calendar=2010-2011">http://www.centennialcollege.ca/Programs/ProgramOverview.aspx?Program=8405&amp;Calendar=2010-2011</a>	<a href="http://www.fanshawec.ca/EN/motive/12132/autobody.asp">http://www.fanshawec.ca/EN/motive/12132/autobody.asp</a>
<b>Contact person</b>	Neil Cooke	Jeremy Anderson (Chair)	Dave Samalea Program Coordinator	Reg Chavis Coordinator - Auto Body and Collision Damage Repairer
<b>Telephone/Fax numbers</b>	Tel: (204) 697-5920 Fax: (204) 697-0451	Ph: 613-727-7650 Fax: 613- 727-7643	Tel: (416) 289-5000 ext. 7298 Fax: 416-289-5028	Tel: (519) 452-4430 Fax: (519) 659-8539
<b>Email address</b>	Email: ncooke@rrc.mb.ca	Email: andersj@algonquincollege.com	Email: dsamalea@centennialcollege.ca	Email: rchavis@fanshawec.ca
<b>Size of program Number of students</b>	<ul style="list-style-type: none"> <li>• 2 classes of 15 students in each class = 30 students.</li> </ul>	<ul style="list-style-type: none"> <li>• 20 students per class in Body Repair with 2 intakes per semester. Every other year will run an additional 20 students for Paint.</li> </ul>	<ul style="list-style-type: none"> <li>• 80 students per year</li> </ul>	<ul style="list-style-type: none"> <li>• 25 students per class</li> </ul>
<b>Size of program Number of Faculty</b>	<ul style="list-style-type: none"> <li>• 2 full time Instructors</li> </ul>	<ul style="list-style-type: none"> <li>• 3 – 4 staff depending upon size and number of classes</li> <li>• No full time staff, only part time.</li> </ul>	<ul style="list-style-type: none"> <li>• 6 Staff designated for both certificate and Apprenticeship programs</li> </ul>	<ul style="list-style-type: none"> <li>• 1 full time Instructor and 3 part time.</li> </ul>



NAIT	NBCC	OKANAGAN	SIAST	VCC
<p>Northern Alberta Institute of Technology (NAIT) Patricia Campus, 12204 - 149 Street, Edmonton, AB</p> <p><a href="http://www.nait.ca/program_home_12867.htm">http://www.nait.ca/program_home_12867.htm</a></p> <p>Scott Sinclair Associate Chair</p> <p>Phone: (780) 453-5423 Fax: (780).453-5405</p> <p>Email: scott@s.nait.ca</p>	<p>New Brunswick Community College St John Campus P.O. Box 2270 950 Grandview Ave Saint John, NB E2L 3V1 Phone: (506) 658-6600 Toll Free: 1-800-416-4080 Fax: (506) 658-6792</p> <p><a href="http://www.nbcc.nb.ca/programs/index.asp?view=program&amp;id=2327">http://www.nbcc.nb.ca/programs/index.asp?view=program&amp;id=2327</a></p> <p>Brian Rignanesi Department Head</p> <p>Phone;506-658-6395</p> <p>Email: brian.rignanesi@gnb.ca</p>	<p>Okanagan College Kelowna 1000 KLO Road Kelowna, BC V1Y 4X8 Tel: 250-762-5445 Toll Free: 1-877-755-2266</p> <p><a href="http://www.okanagan.bc.ca/departments/Trades_Departments_Program_Information/Collision_Repair/Pre-Apprenticeship_Programs.html">http://www.okanagan.bc.ca/departments/Trades_Departments_Program_Information/Collision_Repair/Pre-Apprenticeship_Programs.html</a></p> <p>Randy Dewar Head Instructor</p> <p>Phone: 250-762-5445 ext. 4472 Fax: 250-862-5407</p> <p>Email: rdewar@okanagan.bc.ca</p>	<p>Saskatchewan Institute of Applied Science and Technology (SIAST) <b>Kelsey Campus</b> Idylwyld and 33rd St PO Box 1520 Saskatoon SK S7K 3R5 Phone: (306) 659-4300</p> <p><a href="http://gosiast.com/">http://gosiast.com/</a></p> <p>Gerry Bonsal, Campus Director <b>Kelsey Campus</b></p> <p>Bill Coulthard, Campus Director <b>Wascana Campus</b> PO Box 556 Regina SK S4P 3A3 Phone: (306) 775-7300</p> <p>Dale Hawkins Program Head Phone: 306-775-7744 Fax: 306-798-0628</p> <p>Email: bonsal@siast.sk.ca coulthard@siast.sk.ca hawkinsd@siast.sk.ca</p>	<p>Vancouver Community College <b>Downtown Campus</b> Level 1, 250 West Pender, Vancouver, BC V6B 1S9 Admissions Enquires: 604.443.8400 Toll free 1.866.565.7820</p> <p><a href="http://www.vcc.ca/programs-courses/detail.cfm?div_id=11&amp;prog_id=9">http://www.vcc.ca/programs-courses/detail.cfm?div_id=11&amp;prog_id=9</a></p>
<ul style="list-style-type: none"> <li>• 2 classes per year, 18 per class = 36</li> <li>• 6 instructors</li> </ul>	<ul style="list-style-type: none"> <li>• 20 certificate students per school year, Sept – June intake</li> <li>• (3) Instructional Staff, (1) dedicated to Certificate, (2) for Apprenticeship</li> </ul>	<ul style="list-style-type: none"> <li>• 2 Foundation (certificate) classes per year, 18 per class = 36 students</li> <li>• 4 full time Instructors, 1 part time (2.5 designated for certificate)</li> </ul>	<ul style="list-style-type: none"> <li>• 24 certificate, 2 groups of 12.</li> <li>• 4 Full time Instructors plus Program Head</li> </ul>	

	RRC	ALGONQUIN	CENTENNIAL	FANSHAWE
<b>Credential issued</b>	<b>Certificate</b>	<b>Ontario College Certificate</b>	<b>Certificate</b>	<b>Certificate</b>
<b>Program features</b>	<p><b>Length</b></p> <ul style="list-style-type: none"> <li>• 1 year</li> </ul> <p><b>Division of Academic year</b></p> <ul style="list-style-type: none"> <li>• September entry date</li> </ul> <p><b>Entrance Requirements</b></p> <ul style="list-style-type: none"> <li>• Manitoba Grade 12</li> </ul>	<p><b>Length</b></p> <ul style="list-style-type: none"> <li>• Program length: 24 weeks</li> </ul> <p><b>Division of Academic year</b></p> <ul style="list-style-type: none"> <li>• Three levels – Basic, Intermediate and Advanced each consisting of eight weeks</li> </ul> <p><b>Entrance Requirements</b></p> <ul style="list-style-type: none"> <li>• Applicants must be formally registered as apprentices, must have obtained an Ontario Secondary School Diploma, must be currently employed in the trade, and must be released by employers to attend the College.</li> </ul>	<p><b>Length</b></p> <ul style="list-style-type: none"> <li>• 36 weeks</li> </ul> <p><b>Division of Academic year</b></p> <ul style="list-style-type: none"> <li>• 3 semesters - 12 weeks per semester – Fall start date</li> </ul> <p><b>Entrance Requirements</b></p> <ul style="list-style-type: none"> <li>• Ontario Secondary School Diploma (OSSD) or equivalent or be 19 years of age or older <ul style="list-style-type: none"> <li>▪ Compulsory English 12C or U, or skills assessment or equivalent</li> </ul> </li> </ul>	<p><b>Length</b></p> <ul style="list-style-type: none"> <li>• 32-week program</li> </ul> <p><b>Division of Academic year</b></p> <ul style="list-style-type: none"> <li>• July start till Xmas (6 months) in school training with 8 weeks Work Experience till the end of Feb.</li> <li>• 1 intake of students per year</li> </ul> <p><b>Entrance Requirements</b></p> <ul style="list-style-type: none"> <li>• Ontario Grade 12 or equivalent;</li> <li>• 16 years or older and eligible to work in Ontario;</li> <li>• Advanced English language skills (if English is not first language)</li> </ul> <p><b>PLAR/R/PL</b></p> <ul style="list-style-type: none"> <li>• PLA – would apply to only Math and English.</li> </ul>

NAIT	NBCC	OKANAGAN	SIAST	VCC
<b>Certificate</b>	<b>Certificate</b>	<b>Certificate</b>	<b>Certificate</b>	<b>Certificate</b>
<p><b>Length</b></p> <ul style="list-style-type: none"> <li>• 12-weeks - 8 weeks of technical and 4 weeks shop practicum in a shop of student's choice.</li> </ul> <p><b>Division of Academic year</b></p> <ul style="list-style-type: none"> <li>• 1<sup>st</sup> intake starts in Aug - Nov, full time in school then go out on 4 week work practicum</li> <li>• 2<sup>nd</sup> intake starts in Jan.</li> </ul> <p><b>Entrance Requirements</b></p> <ul style="list-style-type: none"> <li>• Applicants must have completed grade 10 including Math, Science and English.</li> </ul> <p><b>PLAR/R/PL</b></p> <ul style="list-style-type: none"> <li>• PLA for Math, Science and English</li> </ul>	<p><b>Length</b></p> <ul style="list-style-type: none"> <li>• 1 year</li> </ul> <p><b>Division of Academic year</b></p> <ul style="list-style-type: none"> <li>• 40 week program, Sept-June annually</li> <li>• 3 semester/block system</li> </ul> <p><b>Entrance Requirements</b></p> <ul style="list-style-type: none"> <li>• High School Diploma or Adult High School Diploma or GED Diploma of High School Equivalency</li> </ul> <p><b>PLAR/R/PL</b></p> <ul style="list-style-type: none"> <li>• No PLAR</li> </ul>	<p><b>Length</b></p> <ul style="list-style-type: none"> <li>• 36 weeks</li> </ul> <p><b>Division of Academic year</b></p> <ul style="list-style-type: none"> <li>• No semester system, 36 weeks straight through</li> <li>• 1<sup>st</sup> class starts in Sept</li> <li>• 2<sup>nd</sup> class starts in Feb</li> </ul> <p><b>Entrance Requirements</b></p> <ul style="list-style-type: none"> <li>• B.C. secondary school graduation, or equivalent, or 19 years of age and out of secondary school for at least one year as of the first day of classes.</li> <li>• Satisfactory standing in basic mathematics and reading tests.</li> <li>• Grade 10 Math/English entrance requirement. Students are pre-tested (Able test) to see if they have mechanical aptitude for the trade.</li> </ul> <p><b>PLAR/R/PL</b></p> <ul style="list-style-type: none"> <li>• No PLAR</li> </ul>	<p><b>Length</b></p> <ul style="list-style-type: none"> <li>• 30 weeks</li> </ul> <p><b>Division of Academic year</b></p> <ul style="list-style-type: none"> <li>• Start date(s): Varies - August and October (Regina) and August (Saskatoon)</li> </ul> <p><b>Entrance Requirements</b></p> <ul style="list-style-type: none"> <li>• Grade 10. English is the language of instruction and examination at SIAST. If first or primary language is not English, applicant will need to provide evidence of having the English language skills in speaking, listening, reading and writing required to be successful in a SIAST program.</li> </ul> <p>The majority of SIAST programs have established ACCUPLACER© cut scores and Post-Secondary Success Requirements. Depending on the program, additional specific admission requirements may still need to be met.</p> <p><b>PLAR/R/PL</b></p> <ul style="list-style-type: none"> <li>• PLAR</li> </ul>	<p><b>Length</b></p> <ul style="list-style-type: none"> <li>• 8 months</li> </ul> <p><b>Division of Academic year</b></p> <ul style="list-style-type: none"> <li>• 2 terms</li> </ul> <p><b>Entrance Requirements</b></p> <ul style="list-style-type: none"> <li>• Graduation from an appropriate career preparation program or meet the English and Math requirements of: <ul style="list-style-type: none"> <li>▪ English 11 or Communications 12 or equivalent</li> <li>▪ Math 10 or equivalent</li> </ul> </li> <li>• Relevant trade experience is considered</li> <li>• This program is Canadian Language Benchmarked at Listening 7, Speaking 6, Reading 6, Writing 4</li> </ul>

	RRC	ALGONQUIN	CENTENNIAL	FANSHAWE
<b>Program features (cont'd)</b>	<p><b>Special Admission Requirements</b></p> <ul style="list-style-type: none"> <li>• Applicants who will be 19 years of age on or before September 30 in their year of registration, and who have been out of high school for a minimum of one year who do not meet the regular admission requirements may apply under the special admission requirements. Individuals applying as a special admission applicant must have successfully completed RRC Academic Foundations, or a minimum of one Science 20S/20G credit and one credit of Applied Math 20S, Pre-Calculus Math 20S or Consumer Math 30S. English 20S/20F is strongly recommended.</li> </ul> <p><b>Graduation requirements</b></p> <ul style="list-style-type: none"> <li>• 60% pass in all subject areas with a minimum of 2.0 Grade Point Average overall.</li> <li>• Level 1 accreditation awarded if students maintain a 3.0 GPA and meet guidelines from the Apprenticeship Branch. Must be working within 2 years of school graduation and be signed up as a Manitoba Apprentice and be currently employed in the Industry.</li> </ul>	<p><b>Selection criteria</b></p> <ul style="list-style-type: none"> <li>• Eligibility is determined by the Ministry of Training, Colleges and Universities</li> </ul> <p><b>Graduation requirements</b></p> <ul style="list-style-type: none"> <li>• Do not have a certificate program, only do Apprenticeship training during the months of May, June, July and August.</li> <li>• Students must obtain a 70% pass in all both Theory and Practical.</li> </ul>	<p><b>Special Selection Process:</b></p> <ul style="list-style-type: none"> <li>• No, Ontario Secondary School Diploma or equivalent or be 19 years of age or older.</li> </ul> <p><b>Graduation requirements</b></p> <ul style="list-style-type: none"> <li>• Minimum D grade 50% in all subjects with an overall GPA of 2.0 (C grade) is required for graduation</li> </ul>	<p><b>Special Selection Process:</b></p> <ul style="list-style-type: none"> <li>• Students must have a grade 12 or equivalent credits and applicants are required to complete 2 tests, (1) on Mechanical Reasoning, (2) on Towes (Comprehension test). Once test scores have been totaled applicants then go through a personal interview with a selection committee. It is Fanshawe's goal to select only applicants that are most capable of succeeding in the program.</li> </ul> <p><b>Graduation requirements</b></p> <ul style="list-style-type: none"> <li>• 2.0 Grade</li> </ul>

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<p><b>Special Admissions Requirement</b></p> <ul style="list-style-type: none"> <li>• Student selection is competitive and based on criteria that may include academic achievement beyond the minimum prerequisites. The Career Investigation is a report applicants prepare as part of the application process for many full-time programs at NAIT. A Career Investigation is not required for this program but is advisable.</li> </ul> <p><b>Graduation requirements</b></p> <ul style="list-style-type: none"> <li>• 65% pass in both theory and practical, no rewrites allowed, 2.5 grade point</li> </ul>	<p><b>Special Selection Process</b></p> <ul style="list-style-type: none"> <li>• No special selection process, first 20 accepted if they have grade 12.</li> <li>• 60% pass in all subject areas, no accreditation in province for all trades</li> </ul>	<p><b>Graduation requirements</b></p> <ul style="list-style-type: none"> <li>• 60% pass, 2.0 GPA. Level 1 accreditation (based on 70% pass in all subjects). Students have to write and challenge level 1 exam. Have 3 years to validate. Level 1 Apprenticeship for both Automotive Collision Repair and Automotive Refinishing Prep Technician.</li> </ul>	<p><b>Special Selection Process</b></p> <ul style="list-style-type: none"> <li>• First come first served.</li> <li>• No special selection process</li> </ul>	

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<b>Curriculum Model</b>	<p><b>Experiential Component</b></p> <ul style="list-style-type: none"> <li>Two mandatory industry work placements of 2 weeks each time = 4 weeks in duration.</li> </ul> <p><b>Delivery Options</b></p> <ul style="list-style-type: none"> <li>Full-time</li> <li>No distance education for this trade.</li> <li>Leads into Apprenticeship Training</li> </ul>	<p><b>Delivery Options</b></p> <ul style="list-style-type: none"> <li>Programs at Algonquin College are delivered using a variety of instruction modes. Courses may be offered in the classroom or lab, entirely online, or in a hybrid mode which combines classroom sessions with on-line learning activities.</li> </ul> <p><b>Traditional Delivery methods.</b></p> <ul style="list-style-type: none"> <li>There is the possibility of doing some on line training in the near future.</li> </ul>	<p><b>Experiential Component</b></p> <ul style="list-style-type: none"> <li>No work experience component</li> </ul> <p><b>Program Majors/Streams</b></p> <ul style="list-style-type: none"> <li>Course leads into Apprenticeship training.</li> </ul> <p><b>Delivery Options</b></p> <ul style="list-style-type: none"> <li>Full-time Curriculum has been modeled on the apprenticeship in-school program and has been structured to allocate about 40 per cent of schedule to hands-on practice time.</li> </ul>	<p><b>Experiential Component</b></p> <ul style="list-style-type: none"> <li>Eight weeks of on-the-job training with area employers</li> </ul> <p><b>Program Majors/Streams</b></p> <ul style="list-style-type: none"> <li>Leads into Apprenticeship program, runs from Nov. – April annually.</li> </ul> <p><b>Delivery Options</b></p> <ul style="list-style-type: none"> <li>Full-time</li> </ul>
<b>Curriculum Content Course titles</b>	<p><b>Credit Hours</b></p> <ul style="list-style-type: none"> <li>Basic Metal Working – Theory 1</li> <li>Basic Refinishing Preparation – Theory 1</li> <li>Estimating – Theory 1</li> </ul>	<p><b>Hours</b></p> <p><b>Level: 01 (Basic)</b></p> <ul style="list-style-type: none"> <li>Body and Frame Structure – 96</li> <li>Refinishing I - 40</li> <li>Applied Mechanical I – 32</li> <li>Applied Work Practices – 40</li> </ul>	<p><b>Semester 1 (12 weeks)</b></p> <ul style="list-style-type: none"> <li>Applied Mechanical Systems 1 2</li> <li>Applied Work Practices and Procedures 1 2</li> <li>Body and Frame Repair 1 5</li> </ul>	<p><b>Course Titles</b></p> <ol style="list-style-type: none"> <li>Academic Upgrading: 72 hours</li> <li>Value Added Skills: 150 hours</li> <li>Job Search Employability: 32 hours</li> </ol>

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<p><b>Experiential Component</b></p> <ul style="list-style-type: none"> <li>4-week shop practicum <ul style="list-style-type: none"> <li>1 week: Detailing</li> <li>2 week: Prep</li> <li>3 week: Body</li> <li>4 week: Paint</li> </ul> </li> </ul> <p>Work experience is done at the end of the program upon completion of all theory and practical training.</p> <p><b>Program Majors/Streams</b></p> <ul style="list-style-type: none"> <li>Leads into Apprenticeship, students are allowed to challenge their level 1 as long as they have 70% in every subject area and have completed the required hours of work according to Apprenticeship Policy.</li> </ul> <p><b>Delivery Options</b></p> <ul style="list-style-type: none"> <li>Full-time. 15 hours of classroom theory and 15 hours of shop work per week.</li> <li>Classes operate Monday to Friday - 7:15 a.m. to 2:15 p.m.</li> </ul>	<p><b>Experiential Component</b></p> <ul style="list-style-type: none"> <li>1 – 2 week work experience practicum</li> <li>Program is designed to set up students to enter into apprenticeship.</li> <li>Delivery is by traditional methods, paper handouts, overheads, some computer.</li> </ul> <p><b>Delivery Options</b></p> <ul style="list-style-type: none"> <li>No distance education in trades</li> </ul>	<p><b>Experiential Component</b></p> <ul style="list-style-type: none"> <li>No work experience however students are placed at the end of the program for job placement together with the apprenticeship branch and the Okanagan College.</li> </ul> <p><b>Program Majors/Streams</b></p> <ul style="list-style-type: none"> <li>Leads into Apprenticeship Training.</li> </ul> <p><b>Delivery Options</b></p> <ul style="list-style-type: none"> <li>Full time.</li> <li>Traditional Methods of Instruction.</li> <li>Looked at Distance education but did not work.</li> </ul>	<p><b>Experiential Component</b></p> <ul style="list-style-type: none"> <li>Two weeks work experience in an auto body repair shop.</li> </ul> <p><b>Program Majors/Streams</b></p> <ul style="list-style-type: none"> <li>Leads into Apprenticeship for the trade.</li> </ul> <p><b>Delivery Options</b></p> <ul style="list-style-type: none"> <li>Full-time</li> <li>The following learning methods are available for some of the courses in this program. <ul style="list-style-type: none"> <li>Classroom</li> <li>Home Study</li> <li>Online</li> <li>Work Experience</li> <li>Work-based Training</li> </ul> </li> </ul>	<p><b>Delivery Options</b></p> <ul style="list-style-type: none"> <li>Full-time</li> </ul>
<p><b>Credits</b></p> <ul style="list-style-type: none"> <li>Industry Overview and Regulations 0.5</li> <li>Component Removal and Installation 1.0</li> <li>Substrate Preparation 2.0</li> </ul>	<ul style="list-style-type: none"> <li>Customer Relations (<i>credits acquired after every 45 hours of successful completion</i>).</li> <li>Mechanical and Electrical</li> </ul>	<p><b>Hours</b></p> <ul style="list-style-type: none"> <li>Use Safe Work Practices – 30</li> <li>Use Safe Work Practices – 12</li> <li>Process Technical Information – (Math) 30</li> </ul>	<p><b>Credit Units</b></p> <ul style="list-style-type: none"> <li>Safe working procedures 2.0</li> <li>Bench work 2.0</li> <li>Welding 7.0</li> <li>Plastic material repair 2.0</li> <li>Basic metal work 10.0</li> </ul>	<p><b>Credit Hours</b></p> <p><b>Term 1</b></p> <ul style="list-style-type: none"> <li>Automotive Detailing 1 - 1.0</li> <li>Construction and Components 1- 2.0</li> <li>MIG Welding 1 2.0</li> </ul>

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<b>Curriculum Content Course titles (cont'd)</b>	<p style="text-align: right;"><b>Credit Hours</b></p> <ul style="list-style-type: none"> <li>• Basic Metal Working – Practical 3</li> <li>• Basic Refinishing Preparation – Practical 3</li> <li>• Major Body Alignment, Weld-On Panel Replace-Theory 4</li> <li>• Major Body Alignment, Weld-On Panel Replace-Practical 0</li> <li>• Refinishing &amp; Top Coating – Theory 2</li> <li>• Vehicle Construction – Theory 0</li> <li>• In-Industry Training – 1 3</li> <li>• PC Fundamentals Training 1</li> <li>• Collision Repair Project – Practical 1</li> <li>• Safety 0</li> <li>• AC-043 Accreditation for Level 1 0</li> <li>• Hand tools/ Power tools 1</li> <li>• Flexible Panel Repair (Plastics) – Practical 1</li> <li>• Frame Damage Diagnosis – Practical 1</li> <li>• Related Math 3</li> <li>• Collision Repair Project –Theory 0</li> <li>• Refinishing &amp; Top Coating – Practical 4</li> <li>• Vehicle Construction – Practical 3</li> <li>• Flexible Panel Repair (Plastics) – Theory 0</li> <li>• Frame Damage Diagnosis – Theory 0</li> <li>• Hardware, Glass &amp; Trim – Practical 1</li> </ul>	<p style="text-align: right;"><b>Hours</b></p> <ul style="list-style-type: none"> <li>•Welding I – 32</li> </ul> <p><b>Level: 02</b> (Intermediate)</p> <ul style="list-style-type: none"> <li>• Plastics Repair – 32</li> <li>• Body and Structure – 56</li> <li>• Non-Structural Repair - 56</li> <li>• Refinishing II – 32</li> <li>• Applied Mechanical II – 32</li> <li>Welding II 32</li> </ul> <p><b>Level: 03</b> (Advanced)</p> <ul style="list-style-type: none"> <li>• Damage Analysis and Estimating – 32</li> <li>• Body, Frame and Structure – 64</li> <li>• Refinishing III – 32</li> <li>• Applied Mechanical III – 32</li> <li>• Structural Panel Replacement – 64</li> <li>•Alignment - 16</li> </ul>	<p style="text-align: right;"><b>Credits</b></p> <ul style="list-style-type: none"> <li>•Mathematics for Autobody 2</li> <li>•Occupational Health &amp; Safety 3</li> <li>•Refinishing 1 3</li> </ul> <p><b>Semester 2</b> (12 weeks)</p> <ul style="list-style-type: none"> <li>•Applied Mechanical Systems 2 2</li> <li>•Applied Work Practices and Procedures 2 3</li> <li>•Body and Frame Repair 2 8</li> <li>•Communication Skills for Autobody 1 2</li> <li>•Refinishing 2 3</li> </ul> <p><b>Semester 3</b> (12 weeks)</p> <ul style="list-style-type: none"> <li>•Applied Mechanical Systems 3 2</li> <li>•Applied Work Practices and Procedures 3 3</li> <li>•Body and Frame Repair 3 8</li> <li>•Communication Skills for Autobody 2 2</li> <li>•Refinishing 3 3</li> </ul>	<p>4) Level 1 courses 360 hours (1.5 traditional hours)</p> <p>5) Job Placement: 360 hours (over 8 weeks)</p> <p style="text-align: center;"><b>Total course hours 720</b></p>



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<b>Credits</b>		<b>Hours</b>	<b>Credit Units</b>	<b>Credit Hours</b>
<ul style="list-style-type: none"> <li>• Industry Overview and Regulations 0.5</li> <li>• Component Removal and Installation 1.0</li> <li>• Substrate Preparation 2.0</li> <li>• Welding 4.0</li> <li>• Non-Structural Panel Repair 3.0</li> <li>• Field Placement 2.5</li> <li>• Shop 3.0</li> </ul> <p>No related programs such as Math, Science, Communications or Computer.</p> <p><i>Course outlines: <a href="http://www.nait.ca/12887.htm">http://www.nait.ca/12887.htm</a></i></p>	<ul style="list-style-type: none"> <li>Component Repairs</li> <li>• Ozone Depleting Substances</li> <li>• Shop Practice</li> <li>• Preparation for Vehicle Delivery</li> <li>• Vehicle Construction 180 hours (105 hours theory/75 hours practical) 4 credits</li> <li>• Metal Repairs 180 hours (90 theory/90 practical) 4 credits</li> <li>• Non-Structural Repairs 135 hours (75 theory/60 practical) 3 credits</li> <li>• <i>Painting Equipment</i> 90 hours (60 theory/30 practical) 2 credits</li> <li>• Refinishing</li> <li>• Costing</li> <li>• Safety</li> <li>• WHMIS</li> <li>• Occupational Health and Safety</li> <li>• First Aid and CPR</li> <li>• Information Technology</li> <li>• Welding and Cutting</li> <li>• Work Experience 90 hours (In-Industry) 1 credit</li> <li>• Reading and Writing Applications in the Workplace: 45 hours (45 theory) 1 credit.</li> </ul>	<ul style="list-style-type: none"> <li>• Process Technical Information – 6</li> <li>• Tools and Equipment – 30</li> <li>• Tools and Equipment – 60</li> <li>• Hardware and Trim – 24</li> <li>• Hardware and Trim – 48</li> <li>• Surface Preparation – 30</li> <li>• Surface Preparation – 110</li> <li>• Oxy-Acetylene Welding – 10</li> <li>• Oxy-Acetylene Welding – 20</li> <li>• MIG Welding – 18</li> <li>• MIG Welding – 72</li> <li>• Sheet Metal Repair – 30</li> <li>• Sheet Metal Repair – 174</li> <li>• Plastics and Composites – 18</li> <li>• Plastics and Composites – 30</li> <li>• Undercoats – 10</li> <li>• Undercoats – 50</li> <li>• Topcoats – 18</li> <li>• Topcoats – 72</li> <li>• Panel Replacement – 20</li> <li>• Panel Replacement – 44</li> <li>• Mechanical Components – 18</li> <li>• Mechanical Components – 12</li> <li>• Pre-Delivery – 12</li> <li>• Pre-Delivery – 30</li> <li>• Preparation for Employment – 24</li> <li>• Preparation for Employment – 6</li> <li>• Collision Repair Level I Exam – 6</li> <li>• Automotive Refinishing Prep Level I Exam – 6</li> </ul>	<ul style="list-style-type: none"> <li>• Advanced metal work 8.0</li> <li>• Door servicing 2.0</li> <li>• Front sheet Metal 2.0</li> <li>• Glass removal and installation 1.0</li> <li>• Electrical systems 2.0</li> <li>• Basic painting 7.0</li> <li>• Advanced painting 8.0</li> <li>• Industrial attachment (work experience) 0.0</li> <li>• Industrial Mathematics 2.0</li> <li>• Industry Communications 2.0</li> </ul> <p><i><a href="http://www.siastr.ca/programs_courses_descriptions/ABTCERT.shtml">http://www.siastr.ca/programs_courses_descriptions/ABTCERT.shtml</a></i></p>	<ul style="list-style-type: none"> <li>• Occupational Skills and Safety 1- 1.0</li> <li>• Oxy-Acetylene Welding - 1.0</li> <li>• Plastics and Composites 1 - 1.0</li> <li>• Sheet Metal Repair 1 - 5.0</li> <li>• Surface Preparation 1 - 2.0</li> <li>• Tools and Equipment 1 - 1.0</li> </ul> <p><b>Term 2</b></p> <ul style="list-style-type: none"> <li>• Automotive Detailing 2 - 1.0</li> <li>• Construction and Components 2 – 2</li> <li>• MIG Welding – 2</li> <li>• Occupational Skills and Safety - 1.0</li> <li>• Oxy-Acetylene Welding 2 – 1</li> <li>• Plastics and Composites 2 - 1</li> <li>• Sheet Metal Repair 2 – 5</li> <li>• Surface Preparation 2 – 2</li> <li>• Tools and Equipment 2 - 1</li> </ul>

	RRC	ALGONQUIN	CENTENNIAL	FANSHAW
<b>Curriculum Content</b> <b>Course titles (cont'd)</b>	<p style="text-align: center;"><b>Credit Hours</b></p> <ul style="list-style-type: none"> <li>• Hardware, Glass &amp; Trim – Theory 0</li> <li>• Hydraulics, Principles &amp; Equipment – Practical 1</li> <li>• Hydraulics, Principles &amp; Equipment – Theory 0</li> <li>• In-Industry Training – 2 3</li> <li>• Advanced Metal Working &amp; Rust Repair – Theory 1</li> <li>• Advanced Metal Working &amp; Rust Repair – Practical 3</li> <li>• Communication 1</li> <li>• Basic Autobody Electrical Principles 1 2</li> <li>• Basic Autobody Electrical Principles 2 1</li> <li>• Related Science 3</li> <li>• WHMIS Workshop 0</li> <li>• General Safety Training 0</li> <li>• Gas Welding 3</li> <li>• Mig Welding 1</li> </ul> <p>Course Descriptions:  <a href="http://me.rrc.mb.ca/Catalogue/ProgramPrint.aspx?ProgCode=COLFF-CT&amp;RegionCode=WPG">http://me.rrc.mb.ca/Catalogue/ProgramPrint.aspx?ProgCode=COLFF-CT&amp;RegionCode=WPG</a></p>			
<b>Student assessment</b>	<p><b>Content Theory Assessment</b></p> <ul style="list-style-type: none"> <li>• 1 hour/day theory training for the first term. Another 2 hours / day for Related programs, Math, Electrical, PC Fundamentals and Communications.</li> <li>• Assessment is by written tests and assignments for theory based training.</li> </ul>	<p><b>Content Theory Assessment</b></p> <ul style="list-style-type: none"> <li>• Assessment based on Provincial standards for Apprenticeship Training.</li> <li>• Theory Content: 60%</li> <li>• Practical Content: 40%</li> </ul>	<p><b>Content Theory Assessment</b></p> <ul style="list-style-type: none"> <li>• Approximately 60% theory 40% practical</li> <li>• Written test to achieve 50% pass, students are allowed a rewrite but more than 3 failures constitutes a course failure</li> </ul>	<p><b>Content Theory Assessment</b></p> <ul style="list-style-type: none"> <li>•70% Theory content</li> <li>•30% Practical</li> </ul>

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<p><b>Content Theory Assessment</b></p> <ul style="list-style-type: none"> <li>• Theory 65% minimum pass</li> <li>• Practical assessment done on a daily basis, 65% minimum pass</li> </ul>	<p><b>Content Theory Assessment</b></p> <ul style="list-style-type: none"> <li>• 40% theory based</li> <li>• 60% practical</li> <li>• 7 hours/day training for students</li> </ul>	<p><b>Content Theory Assessment</b></p> <ul style="list-style-type: none"> <li>• 40% theory based content</li> <li>• 60% practical</li> <li>• Theory assessment is by written tests, 60 % pass.</li> </ul>	<p><b>Content Theory Assessment</b></p> <ul style="list-style-type: none"> <li>• Students are in for 6 hours/day</li> <li>• 1 hour theory, 5 hour practical</li> <li>• 60% pass in all subject areas, no rewrites.</li> <li>• No accreditation for Level 1.</li> </ul>	

	RRC	ALGONQUIN	CENTENNIAL	FANSHAW
<b>Student assessment (cont'd)</b>	<p><b>Skills Assessment</b></p> <ul style="list-style-type: none"> <li>• Practical training is 4 hours/day for the first term (Sept. – Feb.) 2<sup>nd</sup> term (Feb. – June), no Theory training and some related programs (depending upon scheduling). The majority of training is spent on practical training.</li> <li>• Practical is 5.0 hours/day. Practical Assessment for first term is based on performance on assigned practical tasks. Students must successfully complete all tasks in order to receive a passing grade. 2<sup>nd</sup> term Assessment for practical is graded on Practical performance on live Customer Vehicles. All practical assessment consists of attendance and punctuality, attitude, quality of workmanship, completing practical tasks within specific time guidelines as outlined by Instructors and willingness to work with others.</li> </ul> <p><b>Assessment Practices for any Experiential components</b></p> <ul style="list-style-type: none"> <li>• Two Work Experience Practicum's. <ul style="list-style-type: none"> <li>▪ 1<sup>st</sup> practicum done in the first term,</li> <li>▪ 2<sup>nd</sup> practicum done in 2<sup>nd</sup></li> </ul> </li> </ul>	<p><b>Skills Assessment</b></p> <ul style="list-style-type: none"> <li>• Students spend 6 hours/day or 30 hours/week for 8 week blocks.</li> <li>• No related programs such as Math, Communications or Science.</li> </ul>	<p><b>Skills Assessment</b></p> <ul style="list-style-type: none"> <li>• Practical Assessment, students have work projects to complete and pass for approximately the first ½ of the school term. The 2<sup>nd</sup> half is allocated to doing live school/customer vehicles.</li> </ul> <p><b>Assessment Practices for any Experiential components</b></p> <ul style="list-style-type: none"> <li>• No work experience component</li> </ul>	<p><b>Skills Assessment</b></p> <ul style="list-style-type: none"> <li>• 60% pass mark on written theory tests</li> <li>• Upon completion of program students that maintain 70% have the option to challenge Level 1.</li> </ul> <p><b>Assessment Practices for any Experiential components</b></p> <ul style="list-style-type: none"> <li>• Work Experience Component: <ul style="list-style-type: none"> <li>▪ Job Placement for 8 weeks</li> </ul> </li> </ul>

NAIT	NBCC	OKANAGAN	SIAST	VCC
<p><b>Skills Assessment</b></p> <ul style="list-style-type: none"> <li>Last ½ of practical training consists of working on live customer vehicles.</li> </ul> <p><b>Assessment Practices for any Experiential components</b></p> <ul style="list-style-type: none"> <li>Utilizes the Smart Board or Learning Modules systems for training.</li> </ul>	<p><b>Skills Assessment</b></p> <ul style="list-style-type: none"> <li>Students work on practical tasks and then customer work in later semesters</li> </ul> <p><b>Assessment Practices for any Experiential components</b></p> <ul style="list-style-type: none"> <li>Assessment, 60% theory on written tests and 60% practical based on daily performances on practical tasks and mastery of skill.</li> </ul>	<p><b>Skills Assessment</b></p> <ul style="list-style-type: none"> <li>Practical: exercises are done on small projects, constitutes about 1/3 of program. The duration is on Live Customer based jobs and vehicles.</li> <li>Marking of practical is done physically on paper copy and students are graded on practical performances done within specific time restraints, 60% pass.</li> </ul>	<p><b>Skills Assessment</b></p> <ul style="list-style-type: none"> <li>Rubric based model for practical assessment</li> <li>Modularized training modules for theory.</li> </ul> <p><b>Assessment Practices for any Experiential components</b></p> <ul style="list-style-type: none"> <li>2 week work experience component</li> </ul>	

	RRC	ALGONQUIN	CENTENNIAL	FANSHAW
<b>Student assessment (cont'd)</b>	term. Students attend for 2 weeks for each work practicum. Assessment is achieved following the same guidelines as outlined in practical outcomes.		.	
<b>Current and coming challenges</b>	<ul style="list-style-type: none"> <li>• Delivery of theory presentations is done by Overheads, video's, whiteboard and Power Point Presentations. No difficulties in content, delivery or changes to Industry requirements to date. It is sometimes difficult to find supporting written and video's that compliment Theory and Practical based training.</li> </ul>	<ul style="list-style-type: none"> <li>• Hard for staff to remain current, would like to see I-CAR training adopted for both staff and students.</li> <li>• I-Car is becoming more known for the trade and being considered as industry requirements.</li> </ul>	<ul style="list-style-type: none"> <li>• Traditional methods of content delivery, Instructor's have Overheads, Power Point, White Boards and utilize Smart Classroom Methods.</li> </ul>	<ul style="list-style-type: none"> <li>• Changes to legislation or Manufacturing create many challenges.</li> <li>• Constantly having to train Staff to be current with Industry requirements.</li> <li>• There is a need to purchase new equipment and switch to new product lines to stay current with Industry trends.</li> <li>• In constant contact with Industry and Auto Body Associations to become aware of Industry requirements.</li> </ul>
<b>Curriculum Renewal</b>	<ul style="list-style-type: none"> <li>• (2) Annual meetings with Trade Advisory Committee.</li> <li>• Program Renewal is mandatory every 5 years. Minor changes are adopted yearly arriving from Trade Advisory Committee's recommendations.</li> </ul>	<ul style="list-style-type: none"> <li>• Have not had a curriculum update in many years. Hard to get industry together and training is dissolving.</li> </ul>	<ul style="list-style-type: none"> <li>• Just completed a course revision and renewal.</li> <li>• Program Advisory Committee meets 2-3 times per year for annual review, feedback and updates.</li> </ul>	<ul style="list-style-type: none"> <li>• Because the certificate program is a new program, 2 years old, there hasn't been a curriculum revision process.</li> </ul>

NAIT	NBCC	OKANAGAN	SIAST	VCC
	<ul style="list-style-type: none"> <li>• Difficulties in getting Industry dedication and input into trade or curriculum. No changes to industry requirements were requested. More feedback is required from Industry.</li> </ul>	<ul style="list-style-type: none"> <li>• No real current or coming challenges</li> </ul>	<ul style="list-style-type: none"> <li>• Have little say in the curriculum process.</li> <li>• Delivery is by traditional methods, modularized training packages, utilizes Power Point, overheads, etc.</li> <li>• Practical training consists of working on practice panels/projects and then graduate on to customer vehicles/jobs.</li> </ul>	
<ul style="list-style-type: none"> <li>• Advisory Board meetings once annually where any curriculum modifications are recommended and then implemented.</li> </ul>	<ul style="list-style-type: none"> <li>• Program was renewed in 2006 and implemented in 2007.</li> <li>• First time in 20 years the program was updated and curriculum revisions were made. Renewal was achieved by Trade Advisory Committee but is not governed.</li> </ul>	<ul style="list-style-type: none"> <li>• Ongoing updates to curriculum. Meet with Trade Advisory Board 3 times/year.</li> <li>• No real process for renewal, typically follow input from Apprenticeship.</li> </ul>	<ul style="list-style-type: none"> <li>• Trade Advisory Board meets once/year typically without the college.</li> <li>• Program gets renewed every 5 years.</li> </ul>	

	<b>RRC</b>	<b>ALGONQUIN</b>	<b>CENTENNIAL</b>	<b>FANSHAW</b>
<b>Partnerships</b>	<p><b>High Schools/Post-secondary</b></p> <ul style="list-style-type: none"> <li>Manitoba Education and Training</li> </ul> <p><b>Government</b></p> <ul style="list-style-type: none"> <li>Graduates can obtain trades certification by joining the apprenticeship program and becoming a qualified journey person in either body repairing and painting or just painting. Upon employment as an apprentice, graduates may be granted up to one level of in-school training towards the Body Repairer or Body Repairer (Paint) apprenticeship. Time credit, reducing the length of your apprenticeship, is at the discretion of the employer and the Apprenticeship Branch, Manitoba Competitiveness, Training and Trade.</li> </ul>	<p><b>High Schools/Post-secondary</b></p> <ul style="list-style-type: none"> <li>Ontario Youth Apprenticeship Programs</li> <li>Work together with High Schools to find Apprentices</li> </ul> <p><b>Union</b></p> <ul style="list-style-type: none"> <li>No Trade Unions</li> </ul>	<p><b>High Schools/Post-secondary</b></p> <ul style="list-style-type: none"> <li>Work with Industry through a Program Advisory Committee for placement of students entering the workplace.</li> </ul> <p><b>Business &amp; Industry</b></p> <p>Canadian Automotive Repair and Service Council (CARS) National Accreditation Board endorsed the program's full compliance with the national industry standards on February 1, 2001 and the program re-accredited until April 30, 2014.</p> <p><b>Government</b></p> <ul style="list-style-type: none"> <li>Courses approved by the Ministry of Training, Colleges and Universities. Graduates may have an opportunity for credit toward their apprenticeship requirements</li> </ul> <p><b>Union</b></p> <ul style="list-style-type: none"> <li>No Trade Union affiliations</li> </ul>	<p><b>High Schools/Post-secondary</b></p> <ul style="list-style-type: none"> <li>No partnerships with High Schools or Post Secondary.</li> </ul> <p><b>Business &amp; Industry</b></p> <ul style="list-style-type: none"> <li>Do have some partnerships with Industry that provide Equipment and Supplies.</li> </ul>



NAIT	NBCC	OKANAGAN	SIAST	VCC
<ul style="list-style-type: none"> <li>Partnerships with the Private Industry Sector, 1 high school.</li> </ul> <p><b>Government</b></p> <ul style="list-style-type: none"> <li>Graduates of the program who choose to apprentice as an auto body technician can receive Alberta Apprenticeship and Industry Training's accreditation for the technical training component of First Period Auto Body Technician training.</li> </ul>	<ul style="list-style-type: none"> <li>6 High schools in Province, only 2 have Auto Body programs.</li> </ul> <p><b>Union</b></p> <ul style="list-style-type: none"> <li>No Union</li> </ul>	<p><b>Government</b></p> <ul style="list-style-type: none"> <li>Apprenticeship Education and Training for accreditation.</li> </ul>	<p><b>High Schools/Post-secondary</b></p> <ul style="list-style-type: none"> <li>No other partnership associations</li> </ul> <p><b>Government</b></p> <ul style="list-style-type: none"> <li>Trade time and academic credit may be available for graduates who find employment in the trade and register as apprentices.</li> </ul> <p><b>Union</b></p> <ul style="list-style-type: none"> <li>College is Unionized but not Industry</li> </ul>	

	RRC	ALGONQUIN	CENTENNIAL	FANSHAW
<b>Partnerships (cont'd)</b>				
<b>Other</b>	<ul style="list-style-type: none"> <li>• Seeing more females enroll in Certificate Programs in both Body and Paint. Also witnessing a slight increase in students withdrawing from the program due to personal reasons</li> </ul>			
<b>Comments</b>	<ul style="list-style-type: none"> <li>• Would like to see a screening process for selection of students into this Program. In Certificate we lose too many students every year that likely should have been screened out perhaps by the selection process. Higher standards are required for accreditation, with the current system of blending marks it is not very accurate for the students' abilities. Related programs need to compliment the core subject areas more and for today's trade expectations.</li> </ul>	<ul style="list-style-type: none"> <li>• Program is struggling to survive. Only offered during the summer months and numbers of students are diminishing. Painters are only done every second year and the last intake was cancelled.</li> </ul>		

NAIT	NBCC	OKANAGAN	SIAST	VCC
	<p><b>International</b></p> <ul style="list-style-type: none"> <li>• Working towards NATEF.</li> </ul>			
	<ul style="list-style-type: none"> <li>• Seeing a change in student body enrollment with more females entering the Auto Body Trade.</li> </ul>	<ul style="list-style-type: none"> <li>• Put a lot of value on Pre-testing students as it leads to very few withdrawals or failures in the program. Also leads to a higher percentage of students that are successful towards accreditation and receive their level 1.</li> </ul> <p><i>Concern:</i></p> <ul style="list-style-type: none"> <li>• Number of apprentices are declining rapidly however the certificate programs numbers are increasing.</li> </ul>		



***Appendix B – Industry Occupational Analysis (DACUM) Chart***

## COLLISION AND REPAIR REFINISHING DACUM

Facilitated by Sandra Sukhan and Gene Semchych

December 15th, 2009

### DACUM Skill Rating Scale

- 1 - Can perform some parts of this skill satisfactorily but requires assistance and/or supervision to perform the entire skill.
- 2 - Can perform this skill satisfactorily but requires periodic assistance and/or supervision.

- 3 - Can perform this skill competently without assistance or supervision.
- 4 - Can perform this skill competently without assistance with more than acceptable quality, and with initiative/adaptability to unique situations.

**ANALYZE A VEHICLE**  
 A

Identify type of vehicle (year, make, model) A1	Clean vehicle for inspection A2	Consult with customer A3	Inspect for damage A4	Create a workplan A5	Prepare estimate A6
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Determine viability of repair A7	Prepare vehicle for transportation A8	Transport vehicle A9			
1 2 3 4	1 2 3 4	1 2 3 4			

**ESTIMATE DAMAGE**  
 B

Estimate repair requirements B1	Set timelines B2	Compare replacement and repair costs B3	Determine availability of replacement parts B4	Disassemble damaged parts B5	Document with photographs B6
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Prepare a written estimate B7	Acquire customer approval for repairs B8	Perform temporary repairs B9			
1 2 3 4	1 2 3 4	1 2 3 4			

PREPARE VEHICLE FOR REPAIRS  
C

Order parts C1	Select appropriate tools and equipment C2	Dismantle vehicle C3	Revise estimate C4	Organize sublet repairs C5	Organize parts C6
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Fasten vehicle to frame C7					
1 2 3 4					

PERFORM VEHICLE DETAILING  
D

Perform exterior cleaning D1	Perform interior cleaning D2	Perform vacuuming procedures D3	Perform spot removal D4	Reset vehicle option controls D5	Perform glass cleaning procedures D6
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4

PERFORM A VARIETY OF REPAIR PROCEDURES  
E

Perform mechanical repairs E1	Perform frame repairs E2	Perform various measurements and calibrations E3	Perform remove and install procedures E4	Replace damaged components E5	Align parts for repair procedures E6
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Perform suspension repairs E7	Perform electronic repairs E8	Perform composite repairs E9	Perform welding procedures E10	Perform interior repairs E11	Perform SRS repairs E12
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Apply corrosion protection and undercoating E13	Perform wheel alignments E14	Perform glass repair E15	Perform rust repairs E16	Perform sheet metal repairs E17	Perform plastics repairs E18
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Perform electrical repairs E19	Perform bonding procedures E20	Perform final assembly E21	Apply decals, striping and graphics E22	Perform paintless dent removal E23	Apply tire and wheel replacement procedures E24
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4

REFINISH VEHICLE  
F

Wash vehicle for refinishing F1	Identify substrate F2	Perform sanding procedures F3	Utilize masking procedures F4	Apply primer F5	Use final sanding techniques F6
1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4
Identify paint codes and variants F7	Mix paint F8	Prepare inside (inner) replacement part F9	Prepare area for paint blends F10	Prepare spray equipment F11	Prepare vehicle for paint application F12
1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4
Follow manufacturers' application procedures F13	Apply top coat F14	Utilize appropriate drying procedures F15	Apply polishing procedures F16		
1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4		

APPLY COMMUNICATION SKILLS  
G

Use e-mail G1	Prepare various documents G2	Use fax and telephone G3	Use digital cameras G4	Read (manuals, etc.) G5	Participate in meetings G6
1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4
Advocate on behalf of client G7	Demonstrate verbal and non-verbal communication skills G8	Demonstrate active listening skills G9	Demonstrate empathy G10	Write instructions (documents and on parts/vehicle) G11	Use industry specific software G12
1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4
Apply industry specific research skills G13	Interpret trade terminology G14				
1   2   3   4	1   2   3   4				



EMPLOY SAFE WORK PRACTICES  
H

Use protective equipment H1	Follow safe working procedures H2	Locate MSDS sheets H3	Apply government codes and regulations H4	Apply organizational regulations H5	Acquire fork lift certification H6
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Apply WHMIS H7	Maintain clean work environment H8	Follow vehicle safety procedures H9	Perform maintenance checks H10	Follow manufacturer's safety procedures re: tools and equipment H11	Acquire first aid training H12
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Dispose of hazardous waste as required H13	Complete accident reports H14	Assess surroundings for risk H15	Use safe storage procedures H16	Prepare an evacuation plan H17	Follow evacuation procedures H18
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Analyze products for compatibility H19					
1 2 3 4					

APPLY PROFESSIONAL SKILLS  
I

Maintain currency within field I1	Maintain certification/ qualifications I2	Build professional relationships I3	Acquire advanced training I4	Demonstrate a professional attitude I5	Maintain membership in trade organizations I6
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Relate to others professionally at various levels I7	Demonstrate respect for others I8	Demonstrate pride in own work I9	Demonstrate integrity I10	Represent employer/ employee in a positive way I11	Maintain hygiene and appearance I12
1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4	1 2 3 4
Apply basic math skills I13					
1 2 3 4					

USE A VARIETY OF TOOLS AND EQUIPMENT  
J

Use a variety of hand tools J1	Use spray equipment J2	Use structural repair equipment J3	Use welding equipment J4	Use air tools J5	Use electric tools J6
1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4
Use lifting equipment J7	Use diagnostic equipment J8	Use measuring equipment J9	Use recycling equipment J10	Use air conditioning recovery equipment J11	Use housekeeping equipment J12
1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4
Use curing and drying equipment J13	Use headlight aiming equipment J14	Use specialty hydraulic equipment J15	Operate fork lift J16	Use office equipment J17	Use cleaning equipment (pressure washers, spray guns etc.) J18
1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4
Use sand blasting equipment J19	Use cutting equipment J20	Maintain equipment as required J21	Use wheel alignment equipment J22		
1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4		

MANAGE TIME  
K

Work within timelines K1	Delegate responsibilities K2	Communicate organizational expectations K3	Prepare work schedule K4	Follow work schedules K5	Prioritize work/work flow K6
1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4	1   2   3   4
Demonstrate punctuality K7	Maintain job focus K8	Negotiate with co-workers for use of equipment or facility K9			
1   2   3   4	1   2   3   4	1   2   3   4			

CONDUCT QUALITY CONTROL  
L

Perform final inspection L1				Perform road test L2				Adhere to quality standards of the organization L3				Manage inventory L4				Check trouble codes L5				Check fluids L6			
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Conduct customer surveys L7				Advise customer on how to maintain repaired area L8				Maintain records L9															
1	2	3	4	1	2	3	4	1	2	3	4												








***Appendix C – Graduate Skills and Abilities Chart***



**DACUM Skill Rating Scale:**

- 1 Can perform some parts of this skill satisfactorily but requires assistance and/or supervision to perform the entire skill.
- 2 Can perform this skill satisfactorily but requires periodic assistance and/or supervision.
- 3 Can perform this skill competently without assistance or supervision.
- 4 Can perform this skill competently without assistance, with more than acceptable quality, and with initiative/adaptability to unique situations.

-  Indicates skill rating.
-  DACUM Committee Skill deleted.
-  Skill or Competency added by Faculty or DACUM wording changed.

-  Grey shaded Box = General Areas of Competency (GAC)
-  Unshaded Box = Specific skill within GAC
- Capitalized text in CWLOs = General Area of Competency (GAC)
- Normal text in CWLOs = Specific skills within GAC

Industry DACUM	Faculty Expectations	College-Wide Learning Outcomes (CWLOs)
<b>ANALYZE A VEHICLE A</b>	<b>ANALYZE A VEHICLE A</b>	
Identify type of vehicle (year, make, model) A1 1 2 3 4	Identify type of vehicle (year, make, model) A1 1 2 3 4	
Clean vehicle for inspection A2 1 2 3 4	Clean vehicle for inspection A2 1 2 3 4	
Consult with customer A3 1 2 3 4	Consult with customer A3 1 2 3 4	
Inspect for damage A4 1 2 3 4	Inspect for damage A4 1 2 3 4	<b>D1</b> - assess situations and identify problems
Create a workplan A5 1 2 3 4	Create a workplan A5 1 2 3 4	<b>G3</b> - be innovative and resourceful: identify and suggest alternative ways to achieve goals and get the job done

Prepare estimate A6	Prepare estimate A6	
1 2 3 4	1 2 3 4	
Determine viability of repair A7	Determine viability of repair A7	
1 2 3 4	1 2 3 4	
Prepare vehicle for transport A8	Prepare vehicle for transport A8	
1 2 3 4	1 2 3 4	
Transport vehicle A9	Transport vehicle A9	
1 2 3 4	1 2 3 4	

<b>ESTIMATE DAMAGE</b> B	<b>INTERPRET ESTIMATES</b> B	
Estimate repair requirements B1	Verify repair requirements B1	<b>C3</b> - make estimates and verify calculations
1 2 3 4	1 2 3 4	
Set timelines B2	Verify timelines B2	<b>F2</b> - plan and manage time, money and other resources to achieve goals
1 2 3 4	1 2 3 4	
Compare replacement and repair costs B3	Verify new, used or after-market replacement parts B3	
1 2 3 4	1 2 3 4	
Determine availability of replacement parts B4	Determine availability of replacement parts B4	
1 2 3 4	1 2 3 4	
Disassemble damaged parts B5	Disassemble damaged parts B5	
1 2 3 4	1 2 3 4	



Document with photographs B6		
1 2 3 4	1 2 3 4	
Prepare a written estimate B7		
1 2 3 4	1 2 3 4	
Acquire customer approval for repairs B8		
1 2 3 4	1 2 3 4	
Perform temporary repairs B9	Perform temporary repairs B6	
1 2 3 4	1 2 3 4	

<b>PREPARE VEHICLE FOR REPAIRS C</b>	<b>PREPARE VEHICLE FOR REPAIRS C</b>	
Order parts C1	Confirm parts order C1	
1 2 3 4	1 2 3 4	
Select appropriate tools and equipment C2	Select appropriate tools and equipment C2	<b>K4</b> - select and use appropriate tools and technology for a task or project
1 2 3 4	1 2 3 4	
Dismantle vehicle C3	Dismantle vehicle C3	
1 2 3 4	1 2 3 4	
Revise estimate C4	Confirm estimate revisions C4	<b>C3</b> - make estimates and verify calculations
1 2 3 4	1 2 3 4	
Organize sublet repairs C5	Confirm sublet repairs internally C5	<b>G3</b> - be innovative and resourceful: identify and suggest alternative ways to achieve goals and get the job done
1 2 3 4	1 2 3 4	

Organize parts C6 1   2   3   4 Fasten vehicle to frame C7 1   2   3   4	Organize parts C6 1   2   3   4 Fasten vehicle to frame equipment C7 1   2   3   4	K4 - select and use appropriate tools and technology for a task or project
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<b>PERFORM VEHICLE DETAILING D</b>	<b>PERFORM VEHICLE DETAILING D</b>	
Perform exterior cleaning D1 1   2   3   4	Perform exterior cleaning D1 1   2   3   4	
Perform interior cleaning D2 1   2   3   4	Perform interior cleaning D2 1   2   3   4	
Perform vacuuming procedures D3 1   2   3   4	Perform vacuuming procedures D3 1   2   3   4	
Perform spot removal D4 1   2   3   4	Perform stain removal D4 1   2   3   4	
Reset vehicle option controls D5 1   2   3   4	Reset vehicle option controls D5 1   2   3   4	
Perform glass cleaning procedures D6 1   2   3   4	Perform glass cleaning procedures D6 1   2   3   4	

1	2	3	4	1	2	3	4	
Replace damaged components E5				Replace damaged components E5				
1	2	3	4	1	2	3	4	
Align parts for repair procedures E6				Align parts for repair procedures E6				
1	2	3	4	1	2	3	4	
Perform suspension repairs E7				Perform suspension repairs E7				
1	2	3	4	1	2	3	4	
Perform electronic repairs E8				Perform electronic repairs E8				
1	2	3	4	1	2	3	4	
Perform composite repairs E9				Perform composite repairs E9				
1	2	3	4	1	2	3	4	
Perform welding procedures E10				Perform welding procedures E10				
1	2	3	4	1	2	3	4	
Perform interior repairs E11				Perform interior repairs E11				
1	2	3	4	1	2	3	4	
Perform SRS repairs E12				Perform SRS repairs E12				
1	2	3	4	1	2	3	4	
Apply corrosion protection and undercoating E13				Apply corrosion protection and undercoating E13				
1	2	3	4	1	2	3	4	

Perform welding procedures E10 1   2   3   4	Perform welding procedures E10 1   2   3   4	
Perform interior repairs E11 1   2   3   4	Perform interior repairs E11 1   2   3   4	
Perform SRS repairs E12 1   2   3   4	Perform SRS repairs E12 1   2   3   4	
Apply corrosion protection and undercoating E13 1   2   3   4	Apply corrosion protection and undercoating E13 1   2   3   4	
Perform wheel alignments E14 1   2   3   4	Perform wheel alignments E14 1   2   3   4	
Perform glass repair E15 1   2   3   4	Perform glass repair E15 1   2   3   4	
Perform rust repairs E16 1   2   3   4	Perform rust repairs E16 1   2   3   4	
Perform sheet metal repairs E17 1   2   3   4	Perform sheet metal repairs E17 1   2   3   4	<b>G2</b> - carry out multiple tasks or projects
Perform plastics repairs E18 1   2   3   4	Perform plastics repairs E18 1   2   3   4	<b>D6</b> - readily use science, technology and mathematics as ways to think, gain and share knowledge, solve problems and make decisions
Perform electrical repairs E19 1   2   3   4	Perform electrical repairs E19 1   2   3   4	

Perform bonding procedures E20	Perform bonding procedures E20	<b>D6</b> - readily use science, technology and mathematics as ways to think, gain and share knowledge, solve problems and make decisions
1 2 3 4	1 2 3 4	
Perform final assembly E21	Perform final assembly E21	
1 2 3 4	1 2 3 4	
Apply decals, striping and graphics E22	Apply decals, striping and graphics E22	<b>G2</b> - carry out multiple tasks or projects
1 2 3 4	1 2 3 4	
Perform paintless dent removal E23		
1 2 3 4	1 2 3 4	
Apply tire and wheel replacement procedures E24	Apply tire and wheel replacement procedures E23	
1 2 3 4	1 2 3 4	
<b>REFINISH VEHICLE</b> F	<b>REFINISH VEHICLE</b> F	
Wash vehicle for refinishing F1	Wash vehicle for refinishing F1	
1 2 3 4	1 2 3 4	
Identify substrates F2	Identify substrates F2	
1 2 3 4	1 2 3 4	
Perform sanding procedures F3	Perform sanding procedures F3	
1 2 3 4	1 2 3 4	
Utilize masking procedures F4	Utilize masking procedures F4	
1 2 3 4	1 2 3 4	

Apply primers F5 1 2 3 4	Apply primers F5 1 2 3 4	
Use final sanding techniques F6 1 2 3 4	Use final sanding techniques F6 1 2 3 4	
Identify paint codes and variants F7 1 2 3 4	Identify paint codes and variants F7 1 2 3 4	
Mix paint F8 1 2 3 4	Mix paint products F8 1 2 3 4	
Prepare inside (inner) replacement part F9 1 2 3 4	Prepare inners F9 1 2 3 4	
Prepare area for paint blends F10 1 2 3 4	Prepare area for blending F10 1 2 3 4	D5 - be creative and innovative in exploring possible solutions
Prepare spray equipment F11 1 2 3 4	Prepare and maintain spray equipment F11 1 2 3 4	J7 - lead or support when appropriate, motivating a group for high performance
Prepare vehicle for paint application F12 1 2 3 4	Prepare vehicle for paint application F12 1 2 3 4	
Follow manufacturers' application procedures F13 1 2 3 4	Follow manufacturers' application procedures F13 1 2 3 4	
Apply top coat F14 1 2 3 4	Apply top coat F14 1 2 3 4	

Utilize appropriate drying procedures F15 1 2 3 4	Utilize appropriate drying and curing procedures F15 1 2 3 4	
Apply polishing procedures F16 1 2 3 4	Apply polishing procedures F16 1 2 3 4	
<b>APPLY COMMUNICATION SKILLS G</b>	<b>APPLY COMMUNICATION SKILLS G</b>	
Use e-mail G1 1 2 3 4	Use e-mail G1 1 2 3 4	<b>A1</b> - read and understand information presented in a variety of forms (e.g. words, graphs, charts, diagrams) <b>A4</b> - share information using a range of information and communications technologies (e.g. voice, e-mail, computers)
Prepare various documents G2 1 2 3 4	Prepare various documents G2 1 2 3 4	<b>B1</b> - locate, gather and organize information using appropriate technology and information systems
Use fax and telephone G3 1 2 3 4	Use fax and telephone G3 1 2 3 4	<b>A4</b> - share information using a range of information and communications technologies (e.g. voice, e-mail, computers)
Use digital cameras G4 1 2 3 4	Use digital cameras G4 1 2 3 4	<b>K4</b> - select and use appropriate tools and technology for a task or project
Read (manuals. etc.) G5 1 2 3 4	Read (manuals. etc.) G5 1 2 3 4	<b>A1</b> - read and understand information presented in a variety of forms (e.g. words, graphs, charts, diagrams) <b>C2</b> - observe and record data using appropriate methods, tools and technology <b>D6</b> - readily use science, technology and mathematics as ways to think, gain and share knowledge, solve problems and make decisions
Participate in meetings G6 1 2 3 4	Participate in meetings G6 1 2 3 4	<b>A3</b> - listen and ask questions to understand and appreciate the points of view of others <b>D4</b> - identify the root cause of a problem <b>E2</b> - deal with people, problems and situations with honesty, integrity and personal ethics <b>H4</b> - identify and access learning sources and opportunities <b>J1</b> - understand and work within the dynamics of a group <b>J6</b> - contribute to a team by sharing information and expertise

Advocate on behalf of client G7		
1 2 3 4	1 2 3 4	
Demonstrate verbal and non-verbal communication skills G8	Demonstrate verbal and non-verbal communication skills G7	<b>A2</b> - write and speak so others pay attention and understand <b>A4</b> - share information using a range of information and communications technologies (e.g. voice, e-mail, computers) <b>D4</b> - identify the root cause of a problem <b>J6</b> - contribute to a team by sharing information and expertise <b>J7</b> - lead or support when appropriate, motivating a group for high performance <b>J8</b> - understand the role of conflict in a group to reach solutions
1 2 3 4	1 2 3 4	
Demonstrate active listening skills G9	Demonstrate active listening skills G8	<b>A3</b> - listen and ask questions to understand and appreciate the points of view of others <b>J9</b> - manage and resolve conflict when appropriate
1 2 3 4	1 2 3 4	
Demonstrate empathy G10	Demonstrate empathy G9	<b>A3</b> - listen and ask questions to understand and appreciate the points of view of others <b>J5</b> - accept and provide feedback in a constructive and considerate manner <b>J9</b> - manage and resolve conflict when appropriate
1 2 3 4	1 2 3 4	
Write instructions (documents and on parts/vehicle) G11	Write instructions (documents and on parts/vehicle) G10	<b>A2</b> - write and speak so others pay attention and understand
1 2 3 4	1 2 3 4	
Use industry-specific software G12	Use industry-specific software G11	<b>B1</b> - locate, gather and organize information using appropriate technology and information systems
1 2 3 4	1 2 3 4	
Apply industry-specific research skills G13	Apply industry-specific research skills G12	<b>A5</b> - use relevant scientific, technological and mathematical knowledge and skills to explain or clarify ideas <b>B1</b> - locate, gather and organize information using appropriate technology and information systems
1 2 3 4	1 2 3 4	
Interpret trade terminology G14	Interpret trade terminology G13	<b>C2</b> - observe and record data using appropriate methods, tools and technology
1 2 3 4	1 2 3 4	



EMPLOY SAFE WORK PRACTICES H	EMPLOY SAFE WORK PRACTICES H	
Use protective equipment H1 1   2   3   4	Use protective equipment H1 1   2   3   4	<b>E4</b> - take care of your personal health <b>I1</b> - be aware of personal and group health and safety practices and procedures, and act in accordance with these
Follow safe working procedures H2 1   2   3   4	Follow safe working procedures H2 1   2   3   4	<b>E4</b> - take care of your personal health <b>I1</b> - be aware of personal and group health and safety practices and procedures, and act in accordance with these
Locate MSDS sheets H3 1   2   3   4	Locate MSDS sheets H3 1   2   3   4	<b>F3</b> - assess, weigh and manage risk
Apply government codes and regulations H4 1   2   3   4	Apply government codes and regulations H4 1   2   3   4	<b>F3</b> - assess, weigh and manage risk <b>K3</b> - work to agreed quality standards and specifications
Apply organizational regulations H5 1   2   3   4	Apply organizational regulations H5 1   2   3   4	<b>F4</b> - be accountable for your actions and the actions of your group <b>G4</b> - be open and respond constructively to change <b>K3</b> - work to agreed quality standards and specifications
Acquire fork lift certification H6 1   2   3   4		
Apply WHMIS H7 1   2   3   4	Obtain WHMIS certification H6 1   2   3   4	
Maintain clean work environment H8 1   2   3   4	Maintain clean work environment H7 1   2   3   4	
Follow vehicle safety procedures H9 1   2   3   4	Follow vehicle safety procedures H8 1   2   3   4	<b>I1</b> - be aware of personal and group health and safety practices and procedures, and act in accordance with these

Perform maintenance checks H10	Perform equipment maintenance checks H9	
1   2   3   4	1   2   3   4	
Follow manufacturer's safety procedures re: tools and equipment H11	Follow manufacturer's safety procedures re: tools and equipment H10	
1   2   3   4	1   2   3   4	
Acquire first aid training H12	Acquire first aid training H11	
1   2   3   4	1   2   3   4	
Dispose of hazardous waste as required H13	Dispose of hazardous waste as required H12	F5 - be socially responsible and contribute to your community
1   2   3   4	1   2   3   4	
Complete accident reports H14	Complete accident reports H13	A2 - write and speak so others pay attention and understand B2 - access, analyze and apply knowledge and skills from various disciplines (e.g. the arts, languages, science, technology, mathematics, social sciences, and the humanities) C2 - observe and record data using appropriate methods, tools and technology G5 - learn from your mistakes and accept feedback F4 - be accountable for your actions and the actions of your group
1   2   3   4	1   2   3   4	
Assess surroundings for risk H15	Assess surroundings for risk H14	D3 - recognize the human, interpersonal, technical, scientific and mathematical dimensions of a problem D4 - identify the root cause of a problem D5 - be creative and innovative in exploring possible solutions G4 - be open and respond constructively to change J2 - ensure that a team's purpose and objectives are clear
1   2   3   4	1   2   3   4	
Use safe storage procedures H16	Use safe storage procedures H15	
1   2   3   4	1   2   3   4	
Prepare an evacuation plan H17		
1   2   3   4	1   2   3   4	
Follow evacuation procedures H18	Follow evacuation procedures H16	
1   2   3   4	1   2   3   4	

Analyze products for compatibility H19 1 2 3 4	Verify product compatibility H17 1 2 3 4	A5 - use relevant scientific, technological and mathematical knowledge and skills to explain or clarify ideas D1 - assess situations and identify problems G5 - learn from your mistakes and accept feedback
<b>APPLY PROFESSIONAL SKILLS</b> I	<b>APPLY PROFESSIONAL SKILLS</b> I	
Maintain currency within field I1 1 2 3 4	Maintain currency within field I1 1 2 3 4	D2 - seek different points of view and evaluate them based on facts E5 - Show interest, initiative and effort H2 - assess personal strengths and areas for development H3 - set your own learning goals H5 - plan for and achieve your learning goals
Maintain certification/ qualifications I2 1 2 3 4	Maintain certification/ qualifications I2 1 2 3 4	E5 - Show interest, initiative and effort H2 - assess personal strengths and areas for development H5 - plan for and achieve your learning goals
Build professional relationships I3 1 2 3 4	Build professional relationships I3 1 2 3 4	A1 - read and understand information presented in a variety of forms (e.g. words, graphs, charts, diagrams) D5 - be creative and innovative in exploring possible solutions E2 - deal with people, problems and situations with honesty, integrity and personal ethics H4 - identify and access learning sources and opportunities J1 - understand and work within the dynamics of a group J9 - manage and resolve conflict when appropriate
Acquire advanced training I4 1 2 3 4	Acquire advanced training I4 1 2 3 4	D9 - check to see if a solution works, and act on opportunities for improvement H1 - be willing to continuously learn and grow H3 - set your own learning goals H4 - identify and access learning sources and opportunities H5 - plan for and achieve your learning goals
Demonstrate a professional attitude I5 1 2 3 4	Demonstrate a professional attitude I5 1 2 3 4	E1 - feel good about yourself and be confident E5 - Show interest, initiative and effort G5 - learn from your mistakes and accept feedback J4 - recognize and respect people's diversity, individual differences and perspectives J5 - accept and provide feedback in a constructive and considerate manner J8 - understand the role of conflict in a group to reach solutions
Maintain membership in trade organizations I6 1 2 3 4	Maintain membership in trade organizations I6 1 2 3 4	E2 - deal with people, problems and situations with honesty, integrity and personal ethics H2 - assess personal strengths and areas for development

Relate to others professionally at various levels I7 1 2 3 4	Relate to others professionally at various levels I7 1 2 3 4	<b>E3</b> - recognize your own and other people's good efforts <b>H1</b> - be willing to continuously learn and grow <b>J1</b> - understand and work within the dynamics of a group <b>J2</b> - ensure that a team's purpose and objectives are clear <b>J8</b> - understand the role of conflict in a group to reach solutions
Demonstrate respect for others I8 1 2 3 4	Demonstrate respect for others I8 1 2 3 4	<b>E3</b> - recognize your own and other people's good efforts <b>F5</b> - be socially responsible and contribute to your community <b>J3</b> - be flexible: respect, be open to and supportive of the thoughts, opinions and contributions of others in a group <b>J4</b> - recognize and respect people's diversity, individual differences and perspectives <b>J5</b> - accept and provide feedback in a constructive and considerate manner
Demonstrate pride in own work I9 1 2 3 4	Demonstrate pride in workmanship I9 1 2 3 4	<b>E1</b> - feel good about yourself and be confident <b>H3</b> - set your own learning goals
Demonstrate integrity I10 1 2 3 4	Demonstrate integrity I10 1 2 3 4	<b>D3</b> - recognize the human, interpersonal, technical, scientific and mathematical dimensions of a problem <b>E1</b> - feel good about yourself and be confident <b>H1</b> - be willing to continuously learn and grow
Represent employer/employee in a positive way I11 1 2 3 4	Represent employer/employee in a positive way I11 1 2 3 4	<b>E3</b> - recognize your own and other people's good efforts <b>F5</b> - be socially responsible and contribute to your community <b>J2</b> - ensure that a team's purpose and objectives are clear
Maintain hygiene and appearance I12 1 2 3 4	Maintain hygiene and appearance I12 1 2 3 4	<b>E4</b> - take care of your personal health <b>J4</b> - recognize and respect people's diversity, individual differences and perspectives
Apply basic math skills I13 1 2 3 4	Apply basic math skills I13 1 2 3 4	<b>A5</b> - use relevant scientific, technological and mathematical knowledge and skills to explain or clarify ideas <b>B2</b> - access, analyze and apply knowledge and skills from various disciplines (e.g. the arts, languages, science, technology, mathematics, social sciences, and the humanities) <b>C1</b> - decide what needs to be measured or calculated

USE A VARIETY OF TOOLS AND EQUIPMENT J	USE A VARIETY OF TOOLS AND EQUIPMENT J	
Use a variety of hand tools J1	Use a variety of hand tools J1	<b>K4</b> - select and use appropriate tools and technology for a task or project
1   2   3   4	1   2   3   4	
Use spray equipment J2	Use refinishing equipment J2	
1   2   3   4	1   2   3   4	
Use structural repair equipment J3	Use structural repair equipment J3	
1   2   3   4	1   2   3   4	
Use welding equipment J4	Use welding equipment J4	
1   2   3   4	1   2   3   4	
Use air tools J5	Use air tools J5	
1   2   3   4	1   2   3   4	
Use electric tools J6	Use electric tools J6	<b>C1</b> - decide what needs to be measured or calculated
1   2   3   4	1   2   3   4	
Use lifting equipment J7	Use lifting equipment J7	
1   2   3   4	1   2   3   4	
Use diagnostic equipment J8	Use diagnostic equipment J8	
1   2   3   4	1   2   3   4	
Use measuring equipment J9	Use measuring equipment J9	<b>C1</b> - decide what needs to be measured or calculated

Use recycling equipment J10 1 2 3 4	Use recycling equipment J10 1 2 3 4	K1 - plan, design or carry out a project or task from start to finish with well-defined objectives and outcomes
Use air conditioning recovery equipment J11 1 2 3 4		
Use housekeeping equipment J12 1 2 3 4	Use housekeeping equipment J11 1 2 3 4	
Use curing and drying equipment J13 1 2 3 4	Use curing and drying equipment J12 1 2 3 4	
Use headlight aiming equipment J14 1 2 3 4	Use headlight aiming equipment J13 1 2 3 4	
Use specialty hydraulic equipment J15 1 2 3 4	Use specialty hydraulic equipment J14 1 2 3 4	
Operate fork lift J16 1 2 3 4		
Use office equipment J17 1 2 3 4	Use office equipment J15 1 2 3 4	
Use cleaning equipment (pressure washers, spray guns etc.) J18 1 2 3 4	Use cleaning equipment (pressure washers, spray guns etc.) J16 1 2 3 4	
Use sand blasting equipment J19 1 2 3 4	Use sand blasting equipment J17 1 2 3 4	

Use cutting equipment J20 1 2 3 4	Use cutting equipment J18 1 2 3 4	
Maintain equipment as required J21 1 2 3 4	Maintain equipment as required J19 1 2 3 4	
Use wheel alignment equipment J22 1 2 3 4		

MANAGE TIME K	MANAGE TIME K	
Work within timelines K1 1 2 3 4	Work within timelines K1 1 2 3 4	<b>F2</b> - plan and manage time, money and other resources to achieve goals <b>K1</b> - plan, design or carry out a project or task from start to finish with well-defined objectives and outcomes
Delegate responsibilities K2 1 2 3 4		
Communicate organizational expectations K3 1 2 3 4	Communicate organizational expectations K2 1 2 3 4	<b>D7</b> - evaluate solutions to make recommendations or decisions <b>D9</b> - check to see if a solution works, and act on opportunities for improvement <b>G4</b> - be open and respond constructively to change <b>G6</b> - cope with uncertainty <b>K5</b> - adapt to changing requirements and information <b>K6</b> - continuously monitor the success of a project or task and identify ways to improve
Prepare work schedule K4 1 2 3 4	Prepare work schedule K3 1 2 3 4	<b>D9</b> - check to see if a solution works, and act on opportunities for improvement <b>G4</b> - be open and respond constructively to change <b>G6</b> - cope with uncertainty <b>K1</b> - plan, design or carry out a project or task from start to finish with well-defined objectives and outcomes <b>K2</b> - develop a plan, seek feedback, test, revise and implement

Follow work schedules K5 1 2 3 4	Follow work schedules K4 1 2 3 4	<b>F1</b> - set goals and priorities balancing work and personal life <b>G1</b> - work independently or as a part of a team <b>J6</b> - contribute to a team by sharing information and expertise
Prioritize work/work flow K6 1 2 3 4	Prioritize work/work flow K5 1 2 3 4	<b>D1</b> - assess situations and identify problems <b>D7</b> - evaluate solutions to make recommendations or decisions <b>F1</b> - set goals and priorities balancing work and personal life <b>G2</b> - carry out multiple tasks or projects <b>G6</b> - cope with uncertainty <b>K2</b> - develop a plan, seek feedback, test, revise and implement
Demonstrate punctuality K7 1 2 3 4	Demonstrate punctuality K6 1 2 3 4	<b>D8</b> - implement solutions <b>F1</b> - set goals and priorities balancing work and personal life
Maintain job focus K8 1 2 3 4	Maintain job focus K7 1 2 3 4	<b>F3</b> - assess, weigh and manage risk <b>G3</b> - be innovative and resourceful: identify and suggest alternative ways to achieve goals and get the job done <b>G6</b> - cope with uncertainty <b>K6</b> - continuously monitor the success of a project or task and identify ways to improve
Negotiate with co-workers for use of equipment or facility K9 1 2 3 4	Negotiate with co-workers for use of equipment or facility K8 1 2 3 4	<b>D2</b> - seek different points of view and evaluate them based on facts <b>D3</b> - recognize the human, interpersonal, technical, scientific and mathematical dimensions of a problem <b>D8</b> - implement solutions <b>F4</b> - be accountable for your actions and the actions of your group <b>G1</b> - work independently or as a part of a team <b>J7</b> - lead or support when appropriate, motivating a group for high performance

<b>CONDUCT QUALITY CONTROL</b> L	<b>CONDUCT QUALITY CONTROL</b> L	
Perform final inspection L1 1 2 3 4	Perform final inspection L1 1 2 3 4	
Perform road test L2 1 2 3 4	Perform road test L2 1 2 3 4	<b>D7</b> - evaluate solutions to make recommendations or decisions <b>D9</b> - check to see if a solution works, and act on opportunities for improvement



Adhere to quality standards of the organization L3 1   2   3   4	Adhere to quality standards of the organization L3 1   2   3   4	<b>D2</b> - seek different points of view and evaluate them based on facts <b>K2</b> - develop a plan; seek feedback, test, revise and implement <b>K3</b> - work to agreed quality standards and specifications <b>K5</b> - adapt to changing requirements and information <b>K6</b> - continuously monitor the success of a project or task and identify ways to improve
Manage inventory L4 1   2   3   4	Manage inventory L4 1   2   3   4	<b>G1</b> - work independently or as a part of a team
Check trouble codes L5 1   2   3   4	Check trouble codes L5 1   2   3   4	
Check fluids L6 1   2   3   4	Check fluids L6 1   2   3   4	
Conduct customer surveys L7 1   2   3   4		
Advise customer on how to maintain repaired area L8 1   2   3   4	Advise customer on how to maintain repaired area L7 1   2   3   4	<b>D8</b> - implement solutions <b>K5</b> - adapt to changing requirements and information
Maintain records L9 1   2   3   4	Maintain records L8 1   2   3   4	



***Appendix D – Graduate Profile***



## **The Collision Repair and Refinishing Graduate:**

- A Inspects vehicle damages and gathers vehicle information to determine repair procedures.
- B Uses industry tools and technologies to dismantle and evaluate vehicle to make repair decisions.
- C Details vehicle by performing interior and exterior cleaning and defect removal.
- D Performs various collision repairs (e.g. part replacement, sheet metal damage, mechanical, electrical, safety restraints) and corrosion protection.
- E Prepares and applies undercoats and topcoats by operating and maintaining spray equipment.
- F Communicates to the level of the audience using appropriate tools (e.g. verbal, non-verbal, visual, written, and active listening).
- G Employs safe work practices and procedures by complying with all codes and regulations and by maintaining safety/health certification.
- H Demonstrates professionalism through a positive attitude, ethical behaviour, integrity, confidence, respect for workplace culture, valuing diversity, and continuous learning.
- I Uses, maintains, and troubleshoots hand and power tools and industry-specific equipment
- J Manages timelines by balancing workflow, and demonstrating reliability, accountability and punctuality.



***Appendix E – Program Renewal Plan***





## Program Renewal Plan

The program renewal plan is the result of translating the Curriculum Validation – Program Renewal deliverables into a coherent plan for the renewal of the program. The Program Renewal Plan will serve as the basis for the improvement of the Collision Repair and Refinishing program. The Chair and faculty are committed to renewing the program over the next 5-year period.

The following tasks (and timelines) were identified for completion by the end of June 2015.

- Update the curriculum and evaluation practices to ensure that the graduates' skills and abilities meet industry's requirements for a new technician.
  - Establish a Curriculum Committee to guide the ongoing curriculum renewal process.
    - Review all course outlines to ensure that there are standard learning outcomes and assessment practices for each course code. **(06/10 – 09/11)**
    - Review how/where the College-Wide Learning Outcomes are integrated into the curriculum to ensure that graduates leave the program with a clear understanding of the impact that their personal management skills have on their success in the workforce. **(01/11 – 09/11)**
  - Create more opportunities for students to master the practical skills by increasing the number of project-based work assignments. **(06/10 – 06/15)**
  - Work with the related Math, Science and Communications course instructors to increase the relevance of the content found in these courses to the core curriculum. **(09/13 – 06/15)**
  - In consultation with the Coordinator of related Math and Science courses, explore adopting the model used in the Heavy Duty Mechanic program. **(09/10 – 06/15)**
  - **Use *DesireToLearn*** to develop and deliver course content online. **(09/13 – 06/15)**
  - Use ***Mind Manager*** and ***Power Point*** to present the curriculum electronically. **(09/12 – 06/15)**
- Develop and/or improve student recruitment and retention process to ensure student success.
  - Raise the profile of the program and implement strategies to recruit prospective students.
    - Work with high schools to promote the program to their students. **(06/10 – 06/15)**
  - Implement strategies to increase the academic readiness of incoming students.
    - Work with Student Services to implement practices to assist incoming students with ensuring their academic readiness.

These practices will be similar to what is currently followed for the Heavy Duty Equipment Mechanic and will include: **(09/10 – 06/15)**

- administering the Canadian Adult Achievement Test (CAAT) to incoming students,
  - providing academic counselling to at-risk students,
  - referring at-risk students to academic skills “upgrading” opportunities, and
  - referring at-risk students to peer tutoring.
- Develop student retention and completion strategies.
    - Continue to offer program information sessions to prospective students. **(06/10 – 06/15)**
    - Continue to offer program orientation sessions to incoming students. **(06/10 – 06/15)**
    - Create an informational video that will be made available on the program’s website to assist potential students with determining their suitability to enter the trade (e.g. working conditions, health considerations, employment opportunities and apprenticeship training). **(06/10 – 05/11)**
- Align student in-industry training experiences to industry standards and program outcomes.
    - Develop and/or revise evaluation checklists/task sheets for use by the in-industry training supervisor to assess the on-the-job performance of students. **(01/11 – 06/15)**
    - Consult with industry partners to determine the applicability of NAIT’s in-industry training model to meeting the in-industry training requirements of the program. **(09/10 – 06/11)**
- Increase opportunities for faculty to grow professionally.
    - Introduce **5S** workplace organization methodology into the practical skill training of the program. **(09/10 – 06/15)**
    - Continue to arrange seminars for faculty on new products/equipment/industry practices. **(06/10 – 06/15)**
    - Work with Teacher Education to provide faculty with workshops/training related to developing assessment instruments/practices appropriate for evaluating practical skills (e.g. rubric development). **(09/10 – 06/15)**
- Request budget to ensure that the facilities and equipment that are available to the program are sufficient to achieve its vision. **(06/10 – 06/15)**
- Request budget for the program so that it is sufficient to achieve its vision. **(06/10 – 06/15)**

***Appendix F – Program Renewal Plan Timelines (Gantt chart)***

