

Books and Required Resources:

From The Ground Up Publisher: Aviation Publishers Co. Ltd. Edition: 29th or higher is best ISBN: 978-0-9730036-3-5

🙈 SAULT COLLEGE | 443 NORTHERN AVENUE | SAULT STE. MARIE, ON P6B 4J3, CANADA | 705-759-2554

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|---|--|-----|---|--|
| Course Outcomes and<br>Learning Objectives: | Course Outcome 1   |     | Learning Objectives for Course Outcome 1  |  |
|   | Understand the theory and<br>use of the VHF Omni Range<br>(VOR)  |     | theory of operation, the equipment, serviceability checks,<br>orientation, intercepting inbound and outbound tracks,<br>advantages and disadvantages, the HSI                             |  |
|   | Course Outcome 2   |     | Learning Objectives for Course Outcome 2  |  |
|   | Understand the theory and<br>use of the Automatic<br>Direction Finder (ADF) and<br>the Non-directional Beacons<br>(NDB)  |     | theory of operation, the equipment, serviceability checks,<br>orientation, intercepting inbound and outbound tracks,<br>advantages and disadvantages, inaccuracies of the ADF, the<br>RMI |  |
|   | Course Outcome 3   |     | Learning Objectives for Course Outcome 3  |  |
|   | Understand the theory of<br>Global Positioning System<br>(GPS) technology and use<br>the GTN650 GPS that is<br>used in Sault College<br>aircraft and simulators                            |     | GPS theory, RAIM, databases, signal augmentation, the<br>Garmin GTN650 and the Aspen usage  |  |
|   | Course Outcome 4   |     | Learning Objectives for Course Outcome 4  |  |
|   | Understand and apply the<br>use of radio navigation aids<br>in preparation for the Sault<br>College Commercial<br>Qualification exam and the<br>Transport Canada<br>Commercial Pilot exam. |     | The theory and practical knowledge prepares students for the<br>Transport Canada Commercial Pilot written exam and flight<br>test, as well as the Commercial Qualification exam           |  |
| Evaluation Process and<br>Grading System:   | Evaluation Type Evaluation Weight  |     |   |  |
|   | Final exam   | 50% |   |  |
|   | Tests  | 50% |   |  |
| Date:                                       | August 1, 2019   |     |   |  |
| Addendum:                                   | Please refer to the course outline addendum on the Learning Management System for further information.   |     |   |  |

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