

Industry Partner Training Department

COURSE OUTLINE – Fall 2025

HD210 (V01): Harley-Davidson® Theory. Credits 7, 150 Hours for 15 Weeks

Northwestern Polytechnic acknowledges that our campuses are located on Treaty 8 territory, the ancestral and present-day home to many diverse First Nations, Metis, and Inuit people. We are grateful to work, live and learn on the traditional territory of Duncan's First Nation, Horse Lake First Nation and Sturgeon Lake Cree Nation, who are the original caretakers of this land.

We acknowledge the history of this land, and we are thankful for the opportunity to walk together in friendship, where we will encourage and promote positive change for present and future generations.

INSTRUCTOR:	Peter Sellers Carl Ball	PHONE:	780-835-6643 780-835-6655
OFFICE:	FTD 112 FTD 210	E-MAIL:	p.sellers@nwpolytech.ca cball@nwpolytech.ca

OFFICE HOURS:
M-F: 8.30 – 4.30

CALENDAR DESCRIPTION:

HD-210 provides students with the theory & background information pertaining to Harley-Davidson® service & repair.

The course consists of three modules which cover the following areas:

Module 1: Harley-Davidson® Chassis

Module 2: Harley-Davidson® Electrical

Module 3: Harley-Davidson® Powertrain

Week 1 is general information, basic measurement, safety, tools etc.

PREREQUISITE(S):

Applicants must have English 10-1 or 10-2 and Math 10C or 10-3. Those who do not meet these requirements but wish to be considered for admission are encouraged to contact the Program office.

REQUIRED MATERIALS:

Students are required to bring a working laptop/other computer.

DELIVERY MODE(S):

	Average Hours per Week	Length of Course in Weeks	Total Hours
Lecture	10	15	150
Lab			
Course Totals →	20	15	150

LEARNING OUTCOMES:

For those who are employed, or who seek employment at an authorized Harley-Davidson Retailer, the course provides product-specific training to the latest Harley-Davidson Motor Company standards.

TRANSFERABILITY:

Not available

EVALUATIONS:

There is a 100-question theory exam at the end of each module, covering the various subjects covered in each.

There are online review quizzes that are a required activity for each module.

There is a 25-question exam that covers the miscellaneous materials covered in week 1.

GRADING CRITERIA

Grading Chart for courses with Alpha Grading:

Alpha Grade	4-point Equivalent	Percentage Guidelines	Alpha Grade	4-point Equivalent	Percentage Guidelines
A+	4.0	95-100	C+	2.3	67-69
A	4.0	85-94	C	2.0	63-66
A-	3.7	80-84	C-	1.7	60-62
B+	3.3	77-79	D+	1.3	55-59
B	3.0	73-76	D	1.0	50-54
B-	2.7	70-72	F	0.0	00-49

Grades for this course will be assigned as a percentage. The minimum passing grade is 63%.

COURSE SCHEDULE/TENTATIVE TIMELINE:

- Week 1 General studies 100% (written test only)
- Week 2 Shop Safety, Tools, HD-270 orientation, Dealer Operations, Model ID
- Week 3 Basic measurement. Brake system, ABS
- Week 4 Tires and wheels, Wheel Building, Wheel Bearing Service
- Week 5 Front suspension and steering head, Chassis geometry
- Week 6 Rear swing arm, suspension and Vehicle alignment
- Week 7 Module 1 exams. Basic electrical/ Fluke Meter, Digital Technician
- Week 8 Charging systems, batteries, wiring & connector repair
- Week 9 Starting system, Volt Drop Testing
- Week 10 Engine Management, HDLAN testing
- Week 11 Module 2 exams. Service Checks, Paint Repair, Oils & Lubrication,
- Week 12 Clutch, primary drive and 6 speed Transmission, 4 stroke theory and Diagnostics

Week 13 Precision measurement, Big Twin Powertrain Begins (Twin Cam 96/103 & Milwaukee 8)

Week 14 Big Twin Powertrain. Middleweight (RevMax and Sportster) Powertrain

Week 15 Middleweight (RevMax and Sportster) Powertrain. Module 3 exams. Clean up & awards.

NOTE - ORDER OF PRESENTATION MAY BE SUBJECT TO CHANGE

STUDENT RESPONSIBILITIES:

- This is an adult education environment.
- Students are expected to show respect for others.
- Students are learning skills to prepare them for the work environment.

Following the guidelines in "Student Rights and Responsibilities" in the Northwestern Polytechnic calendar assist us all in maintaining an adult learning environment.

STATEMENT ON ACADEMIC MISCONDUCT:

Academic Misconduct will not be tolerated. For a more precise definition of academic misconduct and its consequences, refer to the Student Rights and Responsibilities policy available at <https://www.nwpolytech.ca/about/administration/policies/index.html>.

**Note: all Academic and Administrative policies are available on the same page.