

## Industry Partner Training Department

### COURSE OUTLINE – Fall 2024

HD260 (V01): Harley-Davidson® Shop. Credits: 7, 300 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.

<b>INSTRUCTOR:</b>	Peter Sellers Carl Ball	<b>PHONE:</b>	780-835-6643 780-835- 6655
<b>OFFICE:</b>	FTD 112 FTD 201	<b>E-MAIL:</b>	<a href="mailto:p.sellers@nwpolytech.ca">p.sellers@nwpolytech.ca</a> <a href="mailto:cball@nwpolytech.ca">cball@nwpolytech.ca</a>

**OFFICE HOURS:**  
M-F: 8.0 – 4.30

#### CALENDAR DESCRIPTION:

HD-260 provides students hands-on, workshop-based skills training 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.

Safety glasses, CSA footwear are also recommended

## DELIVERY MODE(S):

	Average Hours per Week	Length of Course in Weeks	Total Hours
Lecture			
Lab	20	15	300
Course Totals →	20	15	300

## 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:

Daily/weekly tasks are evaluated based on completion of tasks as outlined in the supplied repair order. In most cases students will work in pairs. Student absence and/or non-involvement in the task will be reflected in the evaluation. Certain tasks are performed independently based on the task (e.g. wheel building is an independent task) and are evaluated on this premise.

Shop tasks are evaluated on completion rate, accuracy, safety, time, use of manual/s, communication and of no damage to components or tools. The evaluations grade numerically down from 10 – 0 as follows:

10 points: Job completed within allotted time, correct procedure followed (correct page of Service Manual open), no safety issues, correct PPE used and no tool/MC/parts damage.

8 Points: Job completed with correct procedure followed (correct page of Service Manual open), no safety issues, and no tool/MC/parts damage.

7 points: Job completed *correctly*, over allowed time allotted **or** incorrect procedure **or** safety issues; no PPE used.

5 points: Job more than 2x allotted time **or** incorrect procedure/no use of Service Manual **or** major safety concerns, **or** tool/MC/part damage.

0 points: Job incomplete at end of exam period **or** damage a training aid preventing other students from completing the job

No mark for jobs not started.

There is a 1-day, workshop-based practical exam for each module in HD260, each of these are performed individually (without student partner). The evaluations are based on a supplied rubric that outlines completion of tasks as per the service manual, attention to safety (use of PPE) and time.

Tasks are allotted at a maximum time based on the Harley-Davidson® job timecode manual (with modification factor of approximately 1.5x). These exams are evaluated in the same manner as for the daily/weekly tasks (marks 10 – 0)

## GRADING CRITERIA

Areas of Evaluation	Percentage of Total Course Mark	Timelines, Quality Standards
Module 1-3:	50%, Module Practical Exam	Must be completed and passed (Min 63% as per NWP standard) to receive NWP Certificate.
All modules	50%Shop Assignments:	Students must pass both Theory & Shop components to pass each Module.
Weekly Performance		

### 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.