

Please assess skills out of 4 (based on attached rubric) every 125 hours. To be returned to off-campus coordinator.

\*only assess skills worked on

## HEAVY EQUIPMENT TECHNICIAN (HET)

### First-year Apprentice Learning Plan

Please indicate in the appropriate course column the skills to be focused on in this 125-hour course.

Feel free to add skills specific to your work site.

| Trade Skills and Tasks                                                                           | RAP 15<br>125 hrs | RAP 25A<br>250 hrs | RAP 25B<br>375 hrs | RAP 25C<br>500 hrs | RAP 35A<br>625 hrs | RAP 35B<br>750 hrs | RAP 35C<br>875 hrs | RAP 35D<br>1000 hrs |
|--------------------------------------------------------------------------------------------------|-------------------|--------------------|--------------------|--------------------|--------------------|--------------------|--------------------|---------------------|
|                                                                                                  | RAP 1988          | RAP 2988           | RAP 2989           | RAP 2990           | RAP 3988           | RAP 3989           | RAP 3990           | RAP 3991            |
| Demonstrates basic calculation and measurement specific to trade (metric/imperial)               |                   |                    |                    |                    |                    |                    |                    |                     |
| Demonstrates the correct use of hand, shop and power tools and equipment                         |                   |                    |                    |                    |                    |                    |                    |                     |
| Utilizes oxyacetylene cutting and heating equipment                                              |                   |                    |                    |                    |                    |                    |                    |                     |
| Selects equipment for rigging typical loads                                                      |                   |                    |                    |                    |                    |                    |                    |                     |
| Identifies and repairs common types of truck or trailer frame and suspension systems             |                   |                    |                    |                    |                    |                    |                    |                     |
| Services common bearings and seals, wheels, hubs and tires                                       |                   |                    |                    |                    |                    |                    |                    |                     |
| Utilizes safety procedures when handling wheels and tires                                        |                   |                    |                    |                    |                    |                    |                    |                     |
| Lists and performs pre-alignment inspection procedures                                           |                   |                    |                    |                    |                    |                    |                    |                     |
| Diagnoses and adjusts mechanical steering systems                                                |                   |                    |                    |                    |                    |                    |                    |                     |
| Identifies basic electrical circuits                                                             |                   |                    |                    |                    |                    |                    |                    |                     |
| Utilizes voltmeter, ammeter and ohmmeter to test circuits                                        |                   |                    |                    |                    |                    |                    |                    |                     |
| Utilizes test light to test circuits                                                             |                   |                    |                    |                    |                    |                    |                    |                     |
| Performs wiring harness, inspection and repair                                                   |                   |                    |                    |                    |                    |                    |                    |                     |
| Identifies various electronic test equipment used in the diagnosis of electronic systems         |                   |                    |                    |                    |                    |                    |                    |                     |
| Performs battery diagnosis, service and repair                                                   |                   |                    |                    |                    |                    |                    |                    |                     |
| Inspects and identifies hydraulic brake system problems                                          |                   |                    |                    |                    |                    |                    |                    |                     |
| Services and repairs hydraulic brake system components                                           |                   |                    |                    |                    |                    |                    |                    |                     |
| Identifies open centre, closed centre and closed loop hydraulic systems from a schematic diagram |                   |                    |                    |                    |                    |                    |                    |                     |
| Identifies the components of a basic air brake system and performs system testing                |                   |                    |                    |                    |                    |                    |                    |                     |
| Performs common trailer system and component inspection                                          |                   |                    |                    |                    |                    |                    |                    |                     |
|                                                                                                  |                   |                    |                    |                    |                    |                    |                    |                     |
|                                                                                                  |                   |                    |                    |                    |                    |                    |                    |                     |
|                                                                                                  |                   |                    |                    |                    |                    |                    |                    |                     |

**Note:** These skills and tasks are taken directly from the *Apprenticeship and Industry Training Record Book* (Blue Book) as a general guideline of the training required for a first-year RAP student.

Employer's Signature

Student's Signature

Off-campus Coordinator's Signature