

	Level 1	Page 1/3
Red Seal Tasks	On-The-Job Duties	Completed
Performs safety-related	Perform lock-out & tag-out, keep area hazard free	
functions	Select & use PPE according to company policies & task	
	Verify equipment & attachments are operational, interpret test results to identify faults or repairs	
	Verify fluid levels & tests, select types & grades of fluids & lubricants, perform inspections	
	Locate, inspect, clean, or replace filters	
	Repair or replace assemblies for hoses, tubing & fittings	
Performs routine work practices	Lubricate bearings, bushings & seals	
	Select & replace gasket or sealing material & construct gaskets	
	Select cleaning method & solution/solvent, cleaning of debris	
	Perform tests & inspections, verify dimensions & pressure, advise on required follow up	
	Find failures, recommend repairs, consult customers	
Organizaa wark	Record information & complete as per policy & procedure	
Organizes work	Determine priority, time, materials & tools for tasks	
Uses & maintains tools	Inspect, identify & repair or replace worn, damaged or faulty tools & equipment	
& equipment	Identify safe lifting locations or tag line points, & weight	
Uses communication &	Interprets instructions & attend meetings	
mentoring techniques	Explain objective & point of lesson	
Diagnoses hydraulic, hydrostatic & pneumatic systems	Perform sensory inspections to identify leaks, noises, heat, or broken hoses	
Repairs hydraulic, hydrostatic & pneumatic systems	Adjust valves for pressure & operating height for suspension	





	Level 1	Page 2/3
Red Seal Tasks	On-The-Job Duties	Completed
Diagnoses electrical/electronic power & control monitoring systems	Interpret test results for Controller Area Network (CAN) bus systems	
Repairs electrical/electronic power & control monitoring systems	Repair starters, solenoids, alternators, batteries & actuators	
Diagnoses steering &	Interpret schematics to isolate leaks, binding or deformities	
brake systems	Disassemble brake system	
Repairs steering & brake	Lubricate or adjust steering motors, hoses, lines, & control valves	
systems	Recondition calipers, controls, drums, discs & accumulators	
	Inspect support wheels & tensioning systems for wear	
Diagnoses track, wheel & suspension systems	Perform air pressure check on bias tires & radial tires	
	Inspect shocks, accumulators, & compressors for leaks & cracks	
	Remove tracks & disassemble track system components	
Repairs track, wheel & suspension systems	Remove hubs, wedges, rims & tires	
	Recharge accumulator with nitrogen	
	Inspect glass, frame, cab mounts, doors for cracks or damage	
Diagnoses structural components	Verify dimensions from technical drawings or factory assistance	
	Perform sensory inspections to identify cab noises	
	Remove & disassemble pivot points, frame rails, gussets & flanges	
Repairs structural components	Remove cab roof, doors, glass, electronics to access ROPS&FOPS	
	Clean, grind, sand & prime area for painting	







	Level 1	Page 3/3
Red Seal Tasks	On-The-Job Duties	Completed
Diagnoses climate control systems	Check actuators, thermostats & water pumps	
	Identify inconsistent cooling & airflow	
Repairs climate control systems	Replace, calibrate or reprogram resistors, motors, valves, heater cores & electronics	
	Replace condensers & evaporators	





	Level 2	Page 1/2
Red Seal Tasks	On-The-Job Duties	Completed
Uses & maintains tools & equipment	Download & document reports from equipment controller	
	Replace crankshaft bearings, pistons & liners, head gaskets, camshafts & cylinder heads	
	Test oil pressure & interpret results	
	Use test trips to determine coolant condition	
Diagnoses engine & engine support systems	Perform tests for boost pressure & intake air temp.	
	Test injectors, injection pump timing & transfer pump pressure	
	Monitor & interpret abnormal temperature or speed readings	
	Inspect emission systems & storage components	
	Adjust valves & liners for clearance & suitable liner protrusion	
	Flush lubrication system & clean oil coolers & inlet strainers	
	Clean & blow out blockages in air-cooled systems	
Repairs engine & engine support systems	Clean & flush charge air coolers, piping & after-treatment systems	
	Adjust injectors & injection pump for static timing	
	Replace worn & damaged connector pins, wires & controllers	
	Perform parked regenerative cycle for DPF & DOC	
	Identify sluggish operation, clutch slippage & failure to release	
Diagnoses drive trains	Select & use stethoscope, dial indicators & spring scale	
	Test wet clutches, transmissions & gear cases for wear	
	Identify differential action failure & overheating differentials	

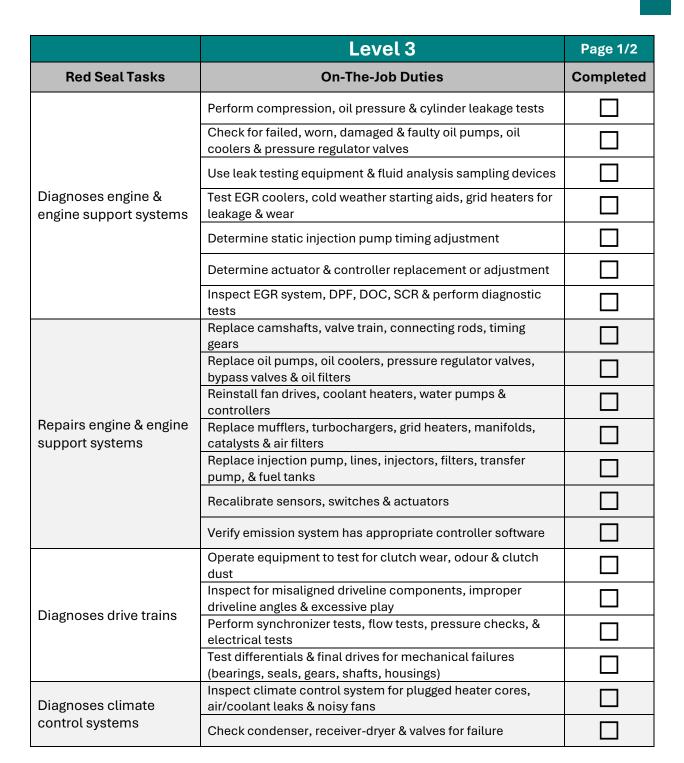






	Level 2	Page 2/2
Red Seal Tasks	On-The-Job Duties	Completed
	Remove & inspect release & pilot bearings, pressure plates, clutch discs, pedals & levers	
Repairs drive trains	Remove & inspect torque plates, drive shafts, universal joints, & sliding couplers	
nopalio anvo traino	Remove & inspect gears, shafts, housings, shims & bushings	
	Replace failed differential & final drive components	
Diagnoses electrical/electronic power & control monitoring systems	Interpret 2-wire CAN & 4-wire CAN test results	
Repairs electrical/electronic power & control monitoring systems	Recalibrate controllers, displays & sensors & reinstall circuit boards	
Prepares agricultural equipment	Locate power sources on equipment & determine harness route	
Diagnoses precision	Perform inspection of communication devices, sensors & power modules for damage	
farming equipment	Advise customer or operator to perform sensory inspection of components for signs of faults	











	Level 3	Page 2/2
Red Seal Tasks	On-The-Job Duties	Completed
Repairs drive trains	Replace clutch discs, primary & secondary cylinders & linkages	
	Align & phase driveline, align chain, gears, & drive shaft safety restraints	
	Repair, recondition & replace wet clutch, transmission & gear case components	
	Assemble & install final drive components	
Repairs climate control systems	Repair or recalibrate fans, resistors, motors, heater cores & electronics	
	Assemble & installs condenser, evaporator, compressor, receiver-dryer & valves	





	Level 4	Page 1/2
Red Seal Tasks	On-The-Job Duties	Completed
Uses communication & mentoring techniques	Give supportive & corrective feedback	
Diagnoses hydraulic, hydrostatic & pneumatic systems	Perform pressure/temperature tests at operating temperature & at rated RPM	
Repairs hydraulic, hydrostatic & pneumatic systems	Repair or replace hydraulic components	
Diagnoses steering & brake systems	Verify steering system function	
Repairs steering & brake systems	Re-install steering motors, steering linkages, priority valves & control valves	
	Perform tension checks on rubber tracks & tensioning systems	
Diagnoses track, wheel & suspension systems	Perform ballasting checks & for tire bulges	
	Check for accumulator charge or failure & air pressure on air compressor & accumulators	
	Replace worn or damaged idlers, rubber tracks, support wheels, drive wheels & perform track alignment	
Repairs track, wheel & suspension systems	Replace worn or damaged fasteners, rims & tires	
	Assemble & install air bags, shocks, accumulators, hoses & controllers	
	Perform inspections on glass, cab mounts & doors for cracks, fatigue or damage	
Diagnoses structural components	Inspect ROPS & FOPS for loose components & damage	
	Perform sensory inspection to identify loose or missing fasteners, air leaks & fatigue	
	Assemble & install pivot points, frame rails, gussets & connecting members on frames	
Repairs structural components	Install ROPS & FOPS	
	Replace or recondition worn roofs, fenders, panels, & hinges	





	Level 4	Page 2/2
Red Seal Tasks	On-The-Job Duties	Completed
Prepares agricultural equipment	Complete pre-delivery inspection (PDI) checklist	
	Assemble balers, headers, mowers, loaders & crop dividers	
	Install receivers, control units, wiring harnesses & verify	
Diagnoses precision	Read test results to determine repairs & reconfiguring on-site	
farming equipment	Perform diagnostics remotely by retrieving codes	
Repairs precision	Replace failed batteries, fuses, relays, telematics communications, terminators, controllers & antennas	
farming equipment	Direct customer to reinstall controllers & power modules	
Diagnoses & preparation, tillage &	Check draft by measuring equipment offset	
seeding/planting equipment	Measure seed depth uniformity	
Repairs & preparation, tillage &	Perform basic welding repairs	
seeding/planting equipment	Adjust air plenums & dampers	
Diagnoses harvesting,	Verify monitor & equipment settings to match crop type	
hay & forage equipment	Inspect rollers, belts, drivelines, bearings, chains for wear, misalignment or damage	
Repairs harvesting, hay	Recondition gear cases, rollers, knives, threshing elements, guards & clutches	
& forage equipment	Realign, adjust, or replace belts, chains, auger flightings, load cells, monitor & drive sheaves	
Diagnoses application &	Compare calculated delivery rate to the actual delivery rate	
irrigation equipment	Calculate delivery rate inputs of water	
Repairs application &	Replace & calibrate flow meters, pressure sensors & switches	
irrigation equipment	Adjust rate controller for volume, speed, pressure & rate	





### Information Regarding the Checklist

Saskatchewan Apprenticeship and Trade Certification Commission's (SATCCs) On-The-Job Checklist provides a complete list of trade-specific Red Seal tasks for apprentices to complete under the supervision of a journeyperson. This work should be completed prior to attending the technical training level under which the duties are listed (e.g. Level 1 completed prior to attending Level 1 technical training).

Completing this checklist will ensure that apprentices are exposed to the full scope of a particular Red Seal trade throughout their apprenticeship program. It will also help prepare apprentices for each level of technical training by performing work on-the-job relating specifically to topics covered later on. The tradespecific tasks listed have been reviewed by certified journeypersons in Saskatchewan for their accuracy and have been set to an appropriate skill level.

An apprentice spends approximately 85% of their apprenticeship term training on-the-job. It is both the apprentice's and the employer's or journeyperson's responsibility to supervise an apprentice's practical skills development during their program.

To promote transparency and consistency, this document aligns with the 2021 Agricultural Equipment Technician Seal Occupational Standard (Employment and Social Development Canada).

A complete version of the Occupational Standard can be found at www.red-seal.ca

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