

COMMON HEAVY EQUIPMENT REPLACEMENT PROJECT (CHER)

REQUEST FOR INFORMATION (RFI)

W8476 – 185840/C

Bundle 2

VOLUME 2

Annex A – Statement of Work - Acquisition

Appendix A-3 – Simulator System Specification Verification Matrix

1. SCOPE

This Appendix defines specific means of compliance that are to be adopted by the Contractor and integrated in the Qualification Plan in accordance with B8-ACQSOW-668. **The means of compliance of the SSS requirements not specified in this Appendix must be proposed by the Contractor to Canada through the Qualification Compliance Matrix (QCM) in accordance with B2-ACQSOW-673.**

2. SIMULATOR SYSTEM SPECIFICATION VERIFICATION MATRIX LAYOUT

The following describes the layout and interpretation of the Simulator System Specification Verification Matrix (SSSVM) blocks:

1. ID – Requirement identification number;
2. Requirement – An extract of the requirements from Volume 2, Annex A, Appendix A-1 - Simulator System Specification.
3. Requirement Type – identifies the type of information the requirement block is conveying. The requirement type is split into the following categories:
 - a. Mandatory – mandatory criteria identifies the minimum requirements that are essential. These requirements are evaluated on a pass or fail basis. Proposals that fail to meet all the mandatory criteria are given no further consideration;
 - b. Rated – rated criteria are point rated and they identify value-added factors and provide a means to assess and distinguish one proposal from another in a Best Value solicitation. Proposals are not obligated to meet the rated criteria. Points will only be awarded for claims for which the Bidder has provided sufficient detail in accordance with the evaluation process to allow Canada to determine its validity. Rated criteria found acceptable in the bid evaluation will be incorporated into the contract as mandatory requirements; and
 - c. Option – These requirements are evaluated on a pass or fail basis and are included in the Financial Evaluation. Proposals which fail to meet the Options requirements will be deemed non-responsive and the proposal will not be given further consideration. The Bidder must commit to providing these Options to Canada, which Canada will exercise at its sole discretion. Once exercised, Options will be incorporated into the Contract and the Contract Price increased.
4. Verification Method – Identifies the mandated means of compliance as follows:
 - a. CERTIFICATION – Two forms of Certification are possible:
 - i. a third party recognized association of technical knowledge and expertise in the applicable area being sought; and
 - ii. an accredited expert that would certify that the standards are met in accordance with his or her own testing or investigation and is attesting to this in his or her professional opinion.

- b. ANALYSIS - An element of verification that uses established technical or mathematical models or simulations, algorithms, charts, graphs, circuit diagrams, or other scientific principles and procedures to provide evidence that stated requirements were met;
 - c. INSPECTION - An element of verification that is generally non-destructive and typically includes the use of sight, hearing, smell, touch, and taste; simple physical manipulation; and mechanical and electrical gauging and measurement. Must include information to uniquely identify the item to be inspected;
 - d. DEMONSTRATION - An element of verification that involves the actual operation of an item to provide evidence that the required functions were accomplished under specific scenarios. The items may be instrumented and performance monitored;
 - e. TEST - The Contractor must demonstrate that the requirements are met through systematic physical operation of the simulator systems, subsystems or major assemblies under specified conditions, along with collection, analysis and evaluation of resulting data.
5. Responsible Party – Identifies the party responsible to verify the requirement with the designated method.

Simulator System Specifications Verification Matrix

1. ID	2. Requirement	3. Requirement Type	4. Verification Method	5. Responsible Party
SSS-SIM-2870	The two variants must interact with the instructor station.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2888	The two variants must function with and without the instructor station.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2649	The simulator operator station of both variants must be able to be used by a range of operators from small operator IAW ISO 3411:2007 not wearing Personal Protective Equipment (PPE) to large operator IAW ISO 3411:2007 not wearing PPE.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2461	The motion simulator motion system must synchronize the motion with the visual display of the tasks that are performed.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2189	The motion simulator operator control layout and characteristics for dozer, loader, excavator, grader and backhoe must be in accordance with ISO 10968:2004.	Mandatory Requirement	Certification	Contractor
SSS-SIM-2657	The motion simulator operator control layout and characteristics for the all terrain crane cabin must be in accordance with ISO 7752-2: 2011.	Mandatory Requirement	Certification	Contractor
SSS-SIM-2658	The motion simulator operator load handling controls layout and characteristics for the forklift must be in accordance with ISO 10896-1:2012 section 4.5.4.	Mandatory Requirement	Certification	Contractor
SSS-SIM-2186	The motion simulator primary controls must be of the same form and function as those found on the CHER equipment being simulated. (e.g. a joystick must not simulate a steering wheel or vice versa)	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2798	The motion simulator secondary controls must be of similar form and function as those found on the CHER equipment being simulated.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2837	The motion simulator primary and secondary controls must be hot swappable from one simulated equipment to another.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-175	The excavator motion simulator operator controls must be able to change from ISO to SAE.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-252	The motion simulator computer system must be accessible physically within 5 minutes or less.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2090	The motion simulator Human Machine Interface must allow the operator to select between individual HSE training program modules.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-258	The motion simulator touch screen must be accessible to a seated operator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2093	The volume of the operator station sound system must be adjustable by the seated simulator operator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2230	The volume of the operator station sound system must be mutable by the seated simulator operator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2519	The portable simulator operator controls desk mounts must be adjustable to fit operators of the size range defined in SSS-SIM-2649.	Mandatory Requirement	Test - User trial	Canada

1. ID	2. Requirement	3. Requirement Type	4. Verification Method	5. Responsible Party
SSS-SIM-2803	The portable simulator must replicate the primary and secondary controls of the equipment being simulated.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2522	The portable simulator primary controls must be of the same form and function as those found on the CHER equipment being simulated (e.g. a joystick must not simulate a steering wheel or vice versa).	Mandatory Requirement	Inspection	Canada
SSS-SIM-2703	The portable computer system must meet MIL-STD-810G, method 516.5, for functional shock and transit drop.	Mandatory Requirement	Certification	Contractor
SSS-SIM-2121	The portable simulator computer system must be able to be used as the Human Machine Interface (HMI).	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2018	Each portable simulator must have one set of purpose-built transportation cases to transport the portable simulators.	Mandatory Requirement	Inspection	Canada
SSS-SIM-2732	Each transportation case must have latches.	Mandatory Requirement	Inspection	Canada
SSS-SIM-2805	All transportation case latches must be compliant with MIL-C-4150J.	Mandatory Requirement	Certification	Contractor
SSS-SIM-2828	Each transportation case must have cut or molded foam cushions that protect the portable simulator components from shock and vibration.	Mandatory Requirement	Inspection	Canada
SSS-SIM-2548	Each transportation case must have carry handles in accordance with MIL-STD-1472G.	Mandatory Requirement	Certification	Contractor
SSS-SIM-2203	Each transportation case must have a barometric relief valve as the portable simulator cases will be subject to altitude pressure changes during tactical air transportation or due to abrupt ambient temperature changes.	Mandatory Requirement	Inspection	Canada
SSS-SIM-2704	Each transportable case must have ingress protection IP67 in accordance with IEC 60529.	Mandatory Requirement	Certification	Contractor
SSS-SIM-2212	Each transportation case must withstand, without damage, a storage temperature of 50° C or warmer.	Mandatory Requirement	Certification	Contractor
SSS-SIM-2214	Each transportation case must withstand, without damage, a storage temperature of -40° C or colder.	Mandatory Requirement	Certification	Contractor
SSS-SIM-2210	Each transportation case must withstand, without damage, the shock induced by road and air transportation in accordance with MIL-STD-810F, method 516.5 Procedure 4 Transit Drop.	Mandatory Requirement	Certification	Contractor
SSS-SIM-2878	One simulator instructor station must control both operation station variants.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2270	The simulator Software must be in English and French.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2713	The virtual environment must simulate collisions between the simulated equipment and the environment.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2720	The virtual environment must simulate collisions between simulated equipment components.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2721	The virtual environment must simulate vibration of the equipment.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2866	The virtual environment must simulate deformation of the equipment.	Mandatory Requirement	Test - User trial	Canada

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SSS-SIM-2245	The simulator software must simulate digging and cutting operations performed by the dozer, loader, grader, excavator and backhoe.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2856	The simulator software must simulate a dynamic terrain.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2724	The simulator software must simulate the soil inertial properties and impact vehicle behavior accordingly.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2774	The simulator software must allow for stockpiling to the maximum height equal to the physical capability of the simulated equipment.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2235	The simulator software must simulate friction between the vehicle components and the ground.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2846	The driving of simulated equipment should be realistic .	Rated Requirement	Test - User trial	Canada
SSS-SIM-2850	The simulator software must simulate dry and sunny weather conditions.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1634	The simulator software must have visual rain effects.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1635	The simulator must have sound for rain.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1636	The simulator must have visual snowfall effects.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1637	The simulator must have visual wind effects.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1638	The simulator must have sound for wind.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1652	The simulator software must simulate sandy loam soil conditions.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2731	The simulator must simulate boom deflection while lifting a load.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2822	The simulator must simulate the effects of the outriggers on the stability of the all terrain crane.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2823	The simulator must simulate the effects of the counterweights on the stability and balance of the all terrain crane.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2560	The simulator must simulate wind effects on load swing for all terrain cranes.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2252	The simulator software must have a simulated person who provides hand signals to the all terrain crane simulator operator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1654	The simulator software must simulate the appropriate hand signals in accordance with page 143 to 147 of "The Complete Rigger's Reference Handbook, Third Edition" by Mike Riggs, published by Source Atlantic.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1661	The simulator management software must allow the instructor and the operator to select an equipment training program.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2583	The simulator management software must allow the instructor and the operator to end an equipment training program.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2567	The simulator management software must allow the instructor and operator to select an equipment training module.	Mandatory Requirement	Test - User trial	Canada

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SSS-SIM-2584	The simulator management software must allow the instructor and operator to end an equipment training module.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2566	The simulator management software must allow the instructor and operator to choose different weather conditions.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2570	The simulator management software must allow the instructor to manage multiple user accounts.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2830	The user accounts must be transferable from one operator station to another.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1669	The simulator management software must allow the instructor to add a new account.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2571	The simulator management software must allow the instructor to remove or deactivate an account.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1664	The simulator management software must log in students for training.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2255	The simulator management software must log out students for training.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2787	The simulator management software must allow the instructor to do performance management of the operator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2896	The simulator management software must allow the operator to do their own performance management .	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2746	The simulator management software must allow the instructor to view the simulation exercise from multiple viewpoints, in real time.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2582	The simulator management software must monitor the performance of the operators through key performance metrics .	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2709	The simulator management software must identify key areas to improve the performance of the operator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2750	The simulator management software must provide immediate feedback to operators for incorrect procedures.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2767	The simulator management software must provide immediate feedback to the instructor for incorrect operating procedures performed by the operator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2708	The simulator management software must rank the performance of the operators against each other on a leaderboard .	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2808	The leaderboard must be able to be viewed by the operators.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1665	The simulator management software must save training results.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1666	The simulator management software must maintain a database of training results based on key performance metrics to track the progress of the operators.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1667	The simulator management software must allow the user to analyze training results.	Mandatory Requirement	Test - User trial	Canada

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SSS-SIM-2354	The simulator management software must print training results.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2811	Training results must be linked to a student record.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2759	The simulator management software must have the ability to review completed training exercises through an After Action Review (AAR).	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2763	The AAR must have the ability to replay the training exercise.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2764	The AAR must have the ability to start, stop, rewind, fast forward, pause, zoom in and zoom out.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2760	The AAR must not interfere with on-going training being performed by other operators.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2816	The simulator software should generate a networked virtual environment that allows two operator stations or more to interact during a scenario.	Rated Requirement	Test - User trial	Canada
SSS-SIM-2265	The training programs must be in English and French.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-511	The Simulator must have a program that simulates a backhoe.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1092	The simulator backhoe program must have a training module.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1093	The simulator backhoe training module must have exercises to teach a backhoe operator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1113	The simulator backhoe training module must have exercises to test a backhoe operator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-519	The simulator backhoe training module must have exercises to teach the operator to conduct pre-operational inspection.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-377	The simulator backhoe training module must have exercises to test the operator on pre-operational inspection.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1063	The simulator backhoe training module pre-operational inspection exercises must have exercises to test the operator on randomized equipment faults.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1111	The simulator backhoe training module must have exercises to teach the operator to operate a single control or a few controls of the machine, such as a button, a joystick, a pedal, a steering wheel, or a touchpad for machine interface.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-343	The simulator backhoe training module control exercises must include all controls used in any of the simulator backhoe training module.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1118	The simulator backhoe training module must have exercises to teach the operator to drive the backhoe forward.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-454	The simulator backhoe training module forward driving module must have training exercises consisting of multiple driving paths that the operator has to follow.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1123	The simulator backhoe training module forward driving exercises must have exercises to test the operator on driving within the boundaries of the driving path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1124	The simulator backhoe training module must have exercises to teach the operator to drive the backhoe backward.	Mandatory Requirement	Test - User trial	Canada

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SSS-SIM-1132	The simulator backhoe training module backward driving module must have training exercises consisting of multiple driving paths that the operator has to follow.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1134	The simulator backhoe training module backward driving exercises must have exercises to test the operator on driving within the boundaries of the driving path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-386	The simulator backhoe training module must have exercises to teach the operator to drive the backhoe in directions requiring switching between forward and backward driving.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1101	The simulator backhoe training module maneuvering exercises must have training exercises consisting of multiple driving paths that the operator has to follow.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1136	The simulator backhoe training module maneuvering exercises must have exercises to test the operator on driving within the boundaries of the driving path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-528	The simulator backhoe training module maneuvering exercises must have exercises to teach the operator to park the backhoe within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1137	The simulator backhoe training module maneuvering exercises must have exercises to test the operator on parking the backhoe within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1114	The simulator backhoe training module must have exercises to teach the operator to control the loader bucket by moving along a path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1138	The simulator backhoe training module loader bucket positioning exercises must have training exercises consisting of multiple paths that the operator has to move the loader bucket along.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1140	The simulator backhoe training module loader bucket positioning exercises must have exercises to test the operator on moving the loader bucket within the boundaries of a path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1139	The simulator backhoe training module loader bucket positioning exercises must have exercises to teach the operator to position the loader bucket within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1141	The simulator backhoe training module loader bucket positioning exercises must have exercises to test the operator on positioning the loader bucket within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1104	The backhoe excavator bucket is mounted on the rear of the backhoe.	Information	Test - User trial	Canada
SSS-SIM-1115	The simulator backhoe training module must have exercises to teach the operator to control the excavator bucket by moving along a path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1142	The simulator backhoe training module excavator bucket positioning exercises must have training exercises consisting of multiple paths that the operator has to move the excavator bucket along.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1144	The simulator backhoe training module excavator bucket positioning exercises must have exercises to test the operator on moving the excavator bucket within the boundaries of a path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1143	The simulator backhoe training module excavator bucket positioning exercises must have exercises to teach the operator to position the excavator bucket within a designated area.	Mandatory Requirement	Test - User trial	Canada

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SSS-SIM-1145	The simulator backhoe training module excavator bucket positioning exercises must have exercises to test the operator on positioning the excavator bucket within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-393	The simulator backhoe training module must have exercises to teach the operator to drive the backhoe onto a trailer.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1148	The simulator backhoe training module driving the backhoe on a trailer exercises must include all safety considerations.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-394	The simulator backhoe training module driving the backhoe on a trailer exercises must have exercises to teach the operator to position the backhoe on a trailer.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1108	The simulator backhoe training module driving the backhoe on a trailer exercises must have exercises to test the operator on positioning the backhoe within the trailer boundaries.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-395	The simulator backhoe training module driving the backhoe on a trailer exercises must have exercises to teach the operator to secure the backhoe on the trailer using simulated chains and tie downs.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-396	The simulator backhoe training module driving the backhoe on a trailer exercises must have exercises to teach the operator to unsecure the backhoe using simulated chains and tie downs.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1126	The simulator backhoe training module driving the backhoe on a trailer exercises must have exercises to teach the operator to drive the backhoe off a trailer.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-470	The simulator backhoe training module must have exercises to teach the operator to perform loading operations, using the loader bucket.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-473	The simulator backhoe training module must have exercises to teach the operator to carry material from a pile to a designated area on the ground, using the loader bucket.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-471	The simulator backhoe training module must have exercises to teach the operator to fill a trench, using the loader bucket.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-477	The simulator backhoe training module must have exercises to teach the operator to level a designated area, using the loader bucket.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-534	The simulator backhoe training module must have exercises to teach the operators to unload the removed material to a truck, using the loader bucket.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-463	The simulator backhoe training module must have exercises to teach the operator to perform digging operations, using the excavator arm.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-415	The simulator backhoe training module must have exercises to teach the operator to dig a trench with a flat bottom according to specifications, using the excavator arm.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-530	The simulator backhoe training module must have exercises to teach the operator to unload the removed material in a designated area on the ground, using the excavator arm.	Mandatory Requirement	Test - User trial	Canada

1. ID	2. Requirement	3. Requirement Type	4. Verification Method	5. Responsible Party
SSS-SIM-533	The simulator backhoe training module must have exercises to teach the operator to unload the removed material to a dump truck, using the excavator arm.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-438	The simulator backhoe training module must have exercises to teach the operator to operate forks.	Option	Test - User trial	Canada
SSS-SIM-479	The simulator backhoe training module must have exercises to test the operator on roughly leveling an area of 10m ² within ten (10) minutes.	Option	Test - User trial	Canada
SSS-SIM-481	The simulator backhoe training module must have exercises to test the operator on loading and hauling for 30m travel distance (one way), delivering a total of 10m ³ of material within ten (10) minutes.	Option	Test - User trial	Canada
SSS-SIM-537	The simulator backhoe training module must have exercises to test the operator on filling a ditch 3m L x 2m D x 4m L within five (5) minutes.	Option	Test - User trial	Canada
SSS-SIM-1150	The simulator backhoe program must have a sandbox module.	Option	Test - User trial	Canada
SSS-SIM-1149	The simulator backhoe sandbox module must allow the operator to have the freedom to experiment with the backhoe operation in a realistic virtual environment.	Option	Test - User trial	Canada
SSS-SIM-2593	The simulator backhoe sandbox module must have exercises to teach all safety considerations.	Option	Test - User trial	Canada
SSS-SIM-2592	The simulator backhoe sandbox module must have exercises to allow the operator to fill in a trench using the loader bucket with customized trench dimensions (length, width and depth).	Option	Test - User trial	Canada
SSS-SIM-2601	The simulator backhoe sandbox module must have exercises to allow the operator to excavate using the excavator arm with customized trench dimensions (length, width and depth).	Option	Test - User trial	Canada
SSS-SIM-1152	The Simulator must have a program that simulates a loader.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2420	The simulated loader must be based on an existing wheel loader with net power of 140 KW or more.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1156	The simulator loader program must have a training module.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1157	The simulator loader training module must have exercises to teach a loader operator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1158	The simulator loader training module must have exercises to test a loader operator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1161	The simulator loader training module must have exercises to teach the operator to conduct pre-operational inspection.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1162	The simulator loader training module must have exercises to test the operator on pre-operational inspection.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1163	The simulator loader training module pre-operational inspection exercises must have exercises to test the operator on randomized equipment faults.	Mandatory Requirement	Test - User trial	Canada

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SSS-SIM-1165	The simulator loader training module must have exercises to teach the operator to operate a single control or a few controls of the machine, such as a button, a joystick, a pedal, a steering wheel, or a touchpad for machine interface.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1167	The simulator loader training module control exercises must include all controls used in any of the simulator loader training module.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1170	The simulator loader training module must have exercises to teach the operator to drive the loader forward.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1171	The simulator loader training module driving forward module must have training exercises consisting of multiple driving paths that the operator has to follow.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1172	The simulator loader training module driving forward exercises must have exercises to test the operator on driving within the boundaries of the driving path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1176	The simulator loader training module must have exercises to teach the operator to drive the loader backward.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1177	The simulator loader training module driving backward module must have training exercises consisting of multiple driving paths that the operator has to follow.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1178	The simulator loader training module driving backward exercises must have exercises to test the operator on driving within the boundaries of the driving path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1179	The simulator loader training module driving backward exercises must have exercises to teach the operator to park the loader within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1180	The simulator loader training module driving backward exercises must have exercises to test the operator on parking within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1182	The simulator loader training module must have exercises to teach the operator to drive the loader in directions requiring switching between forward and backward driving.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1183	The simulator loader training module maneuvering exercises must have training exercises consisting of multiple driving paths that the operator has to follow.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1184	The simulator loader training module maneuvering exercises must have exercises to test the operator on driving within the boundaries of the driving path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1185	The simulator loader training module maneuvering exercises must have exercises to teach the operator to park the loader within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1186	The simulator loader training module maneuvering exercises must have exercises to test the operator on parking the loader within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1189	The simulator loader training module must have exercises to teach the operator to control the bucket.	Mandatory Requirement	Test - User trial	Canada

1. ID	2. Requirement	3. Requirement Type	4. Verification Method	5. Responsible Party
SSS-SIM-1190	The simulator loader training module bucket positioning exercises must have training exercises consisting of multiple paths that the operator has to move the bucket along.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1191	The simulator loader training module bucket positioning exercises must have exercises to test the operator on moving the bucket within the boundaries of a path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1192	The simulator loader training module bucket positioning exercises must have exercises to teach the operator to position the bucket within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1193	The simulator loader training module bucket positioning exercises must have exercises to test the operator on positioning the bucket within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1202	The simulator loader training module must have exercises to teach the operator to drive the loader onto a trailer.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1203	The simulator loader training module driving the loader on a trailer exercises must include all safety considerations.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1204	The simulator loader training module driving the loader on a trailer exercises must have exercises to teach the operator to position the loader on a trailer.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1205	The simulator loader training module driving the loader on a trailer exercises must have exercises to test the operator on positioning the loader within the trailer boundaries.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1206	The simulator loader training module driving the loader on a trailer exercises must have exercises to teach the operator to secure the loader on the trailer using simulated chains and tie downs.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1207	The simulator loader training module driving the loader on a trailer exercises must have exercises to teach the operator to unsecure the loader using simulated chains and tie downs.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1208	The simulator loader training module driving the loader on a trailer exercises must have exercises to teach the operator to drive the loader off a trailer.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1215	The simulator loader training module must have exercises to teach the operator to perform loading operations.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1216	The simulator loader training module must have exercises to teach the operator to carry material from a pile to a designated area on the ground.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1242	The simulator loader training module must have exercises to teach the operator to excavate a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1219	The simulator loader training module must have exercises to teach the operator to level a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1217	The simulator loader training module must have exercises to teach the operator to fill a trench.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1220	The simulator loader training module must have exercises to teach the operators to unload the removed material to a dump truck.	Mandatory Requirement	Test - User trial	Canada

1. ID	2. Requirement	3. Requirement Type	4. Verification Method	5. Responsible Party
SSS-SIM-1229	The simulator loader training module must have exercises to teach the operator to operate a fork.	Option	Test - User trial	Canada
SSS-SIM-1235	The simulator loader training module must have exercises to test the operator on roughly leveling an area of 10m ² within ten (10) minutes.	Option	Test - User trial	Canada
SSS-SIM-1236	The simulator loader training module must have exercises to test the operator on loading and hauling for 30m travel distance (one way), delivering a total of 40m ³ of material within fifteen (15) minutes.	Option	Test - User trial	Canada
SSS-SIM-1237	The simulator loader training module must have exercises to test the operator on loading dump trucks from a stock pile at a rate of 30m ³ within ten (10) minutes.	Option	Test - User trial	Canada
SSS-SIM-1239	The simulator loader program must have a sandbox module.	Option	Test - User trial	Canada
SSS-SIM-1240	The simulator loader sandbox module must allow the operator to have the freedom to experiment with the loader operation in a realistic virtual environment.	Option	Test - User trial	Canada
SSS-SIM-2594	The simulator loader sandbox module must have exercises to teach all safety considerations.	Option	Test - User trial	Canada
SSS-SIM-2631	The simulator loader sandbox module must have exercises to allow the operator to fill in a trench with customized trench dimensions (length, width and depth).	Option	Test - User trial	Canada
SSS-SIM-1244	The Simulator must have a program that simulates a dozer.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1248	The simulator dozer program must have a training module.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1249	The simulator dozer training module must have exercises to teach a dozer operator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1250	The simulator dozer training module must have exercises to test a dozer operator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1253	The simulator dozer training module must have exercises to teach the operator to conduct pre-operational inspection.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1254	The simulator dozer training module must have exercises to test the operator on pre-operational inspection.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1255	The simulator dozer training module pre-operational inspection exercises must have exercises to test the operator on randomized equipment faults.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1257	The simulator dozer training module must have exercises to teach the operator to operate a single control or a few controls of the machine, such as a button, a joystick, a pedal, or a touchpad for machine interface.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1259	The simulator dozer training module control exercises must include all controls used in any of the simulator dozer training module.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1262	The simulator dozer training module must have exercises to teach the operator to drive the dozer forward.	Mandatory Requirement	Test - User trial	Canada

1. ID	2. Requirement	3. Requirement Type	4. Verification Method	5. Responsible Party
SSS-SIM-1263	The simulator dozer training module driving forward module must have training exercises consisting of multiple driving paths that the operator has to follow.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1264	The simulator dozer training module driving forward exercises must have exercises to test the operator on driving within the boundaries of the driving path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1268	The simulator dozer training module must have exercises to teach the operator to drive the dozer backward.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1269	The simulator dozer training module driving backward module must have training exercises consisting of multiple driving paths that the operator has to follow.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1270	The simulator dozer training module driving backward exercises must have exercises to test the operator on driving within the boundaries of the driving path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1274	The simulator dozer training module must have exercises to teach the operator to drive the dozer in directions requiring switching between forward and backward driving.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1275	The simulator dozer training module maneuvering exercises must have training exercises consisting of multiple driving paths that the operator has to follow.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1276	The simulator dozer training module maneuvering exercises must have exercises to test the operator on driving within the boundaries of the driving path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1277	The simulator dozer training module maneuvering exercises must have exercises to teach the operator to park the dozer within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1278	The simulator dozer training module maneuvering exercises must have exercises to test the operator on parking the dozer within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1280	The simulator dozer training module must have exercises to teach the operator to control the blade.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1281	The simulator dozer training module blade positioning exercises must have training exercises consisting of multiple paths that the operator has to move the blade along.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1282	The simulator dozer training module blade positioning exercises must have exercises to test the operator on moving the blade within the boundaries of a path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1283	The simulator dozer training module blade positioning exercises must have exercises to teach the operator to position the blade within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1284	The simulator dozer training module blade positioning exercises must have exercises to test the operator on positioning the blade within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1286	The simulator dozer training module must have exercises to teach the operator to drive the dozer onto a trailer.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1287	The simulator dozer training module driving the dozer on a trailer exercises must include all safety considerations.	Mandatory Requirement	Test - User trial	Canada

1. ID	2. Requirement	3. Requirement Type	4. Verification Method	5. Responsible Party
SSS-SIM-1288	The simulator dozer training module driving the dozer on a trailer exercises must have exercises to teach the operator to position the dozer on a trailer.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1289	The simulator dozer training module driving the dozer on a trailer exercises must have exercises to test the operator on positioning the dozer within the trailer boundaries.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1290	The simulator dozer training module driving the dozer on a trailer exercises must have exercises to teach the operator to secure the dozer on the trailer using simulated chains and tie downs.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1291	The simulator dozer training module driving the dozer on a trailer exercises must have exercises to teach the operator to unsecure the dozer using simulated chains and tie downs.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1292	The simulator dozer training module driving the dozer on a trailer exercises must have exercises to teach the operator to drive the dozer off a trailer.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1296	The simulator dozer training module must have exercises to teach the operator to perform dozer self-recovery training using the winch.	Option	Test - User trial	Canada
SSS-SIM-1298	The simulator dozer training module must have exercises to teach the operator to perform dozer tasks.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1302	The simulator dozer training module must have exercises to teach the operator to level a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1303	The simulator dozer training module must have exercises to teach the operator to fill a trench.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1316	The simulator dozer training module must have exercises to teach the operator to perform cut and fill.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1317	The simulator dozer training module must have exercises to teach the operator to create a stockpile.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1300	The simulator dozer training module must have exercises to teach the operator to construct a road by excavating material and forming a road to a specific angle.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1301	The simulator dozer training module must have exercises to teach the operator to construct a road by performing a side hill cut.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1305	The simulator dozer training module must have exercises to teach the operator to lift or drag a single obstacle.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1308	The simulator dozer training module must have exercises to teach the operator to use a ripping attachment to loosen material.	Option	Test - User trial	Canada
SSS-SIM-1310	The simulator dozer training module must have exercises to test the operator on roughly leveling an area of 50m ² within ten (10) minutes.	Option	Test - User trial	Canada
SSS-SIM-1325	The simulator dozer training module must have exercises to test the operator on creating a trafficable lane 3m L x 2m H x 4m W within five (5) minutes.	Option	Test - User trial	Canada

1. ID	2. Requirement	3. Requirement Type	4. Verification Method	5. Responsible Party
SSS-SIM-1326	The simulator dozer training module must have exercises to test the operator on filling a ditch 3m L x 2m D x 4m L within five (5) minutes.	Option	Test - User trial	Canada
SSS-SIM-2738	The simulator dozer training module must have exercises to test the operator to create a ditch 70m L x 3.5m W x 1.5m D with two dozers using T-push method within 100 minutes.	Option	Test - User trial	Canada
SSS-SIM-1314	The simulator dozer program must have a sandbox module.	Option	Test - User trial	Canada
SSS-SIM-1315	The simulator dozer sandbox module must allow the operator to have the freedom to experiment with the dozer operation in a realistic virtual environment.	Option	Test - User trial	Canada
SSS-SIM-2595	The simulator dozer sandbox module must have exercises to teach all safety considerations.	Option	Test - User trial	Canada
SSS-SIM-2600	The simulator dozer sandbox module must have exercises to allow the operator to fill in a trench with customized trench dimensions (length, width and depth).	Option	Test - User trial	Canada
SSS-SIM-1328	The simulator must have a program that simulates an excavator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1332	The simulator excavator program must have a training module.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1333	The simulator excavator training module must have exercises to teach an excavator operator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1334	The simulator excavator training module must have exercises to test an excavator operator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1337	The simulator excavator training module must have exercises to teach the operator to conduct pre-operational inspection.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1338	The simulator excavator training module must have exercises to test the operator on pre-operational inspection.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1339	The simulator excavator training module pre-operational inspection exercises must have exercises to test the operator on randomized equipment faults.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1341	The simulator excavator training module must have exercises to teach the operator to operate a single control or a few controls of the machine, such as a button, a joystick, a pedal, or a touchpad for machine interface.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1343	The simulator excavator training module control exercises must include all controls used in any of the simulator excavator training module.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1346	The simulator excavator training module must have exercises to teach the operator to drive the excavator forward.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1347	The simulator excavator training module driving forward module must have training exercises consisting of multiple driving paths that the operator has to follow.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1348	The simulator excavator training module driving forward exercises must have exercises to test the operator on driving within the boundaries of the driving path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1352	The simulator excavator training module must have exercises to teach the operator to drive the excavator backward.	Mandatory Requirement	Test - User trial	Canada

1. ID	2. Requirement	3. Requirement Type	4. Verification Method	5. Responsible Party
SSS-SIM-1353	The simulator excavator training module driving backward module must have training exercises consisting of multiple driving paths that the operator has to follow.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1354	The simulator excavator training module driving backward exercises must have exercises to test the operator on driving within the boundaries of the driving path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1358	The simulator excavator training module must have exercises to teach the operator to drive the excavator in directions requiring switching between forward and backward driving.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1359	The simulator excavator training module maneuvering exercises must have training exercises consisting of multiple driving paths that the operator has to follow.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1360	The simulator excavator training module maneuvering exercises must have exercises to test the operator on driving within the boundaries of the driving path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1361	The simulator excavator training module maneuvering exercises must have exercises to teach the operator to park the excavator within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1362	The simulator excavator training module maneuvering exercises must have exercises to test the operator on parking the excavator within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1365	The simulator excavator training module must have exercises to teach the operator to control the bucket.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1366	The simulator excavator training module must have training exercises consisting of multiple paths that the operator has to move the bucket along.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1367	The simulator excavator training module must have exercises to test the operator on moving the bucket within the boundaries of a path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1368	The simulator excavator training module must have exercises to teach the operator to position the bucket within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1369	The simulator excavator training module must have exercises to test the operator on positioning the bucket within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1378	The simulator excavator training module must have exercises to teach the operator to drive the excavator onto a trailer.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1379	The simulator excavator training module driving the excavator on a trailer exercises must include all safety considerations.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1380	The simulator excavator training module driving the excavator on a trailer exercises must have exercises to teach the operator to position the excavator on a trailer.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1381	The simulator excavator training module driving the excavator on a trailer exercises must have exercises to test the operator on positioning the excavator within the trailer boundaries.	Mandatory Requirement	Test - User trial	Canada

1. ID	2. Requirement	3. Requirement Type	4. Verification Method	5. Responsible Party
SSS-SIM-1382	The simulator excavator training module driving the excavator on a trailer exercises must have exercises to teach the operator to secure the excavator on the trailer using simulated chains and tie downs.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1383	The simulator excavator training module driving the excavator on a trailer exercises must have exercises to teach the operator to unsecure the excavator using simulated chains and tie downs.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1384	The simulator excavator training module driving the excavator on a trailer exercises must have exercises to teach the operator to drive the excavator off a trailer.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1388	The simulator excavator training module must have exercises to teach the operator to perform excavator self-recovery training using excavator arm and bucket.	Option	Test - User trial	Canada
SSS-SIM-1419	The simulator excavator training module must have exercises to teach the operator to perform excavator tasks.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1422	The simulator excavator training module must have exercises to teach the operator to perform leveling operations.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1429	The simulator excavator training module should have exercises to teach the operator to perform leveling operations by removing boulders.	Option	Test - User trial	Canada
SSS-SIM-1430	The simulator excavator training module should have exercises to teach the operator to perform leveling operations by removing trees.	Option	Test - User trial	Canada
SSS-SIM-1431	The simulator excavator training module must have exercises to teach the operator to perform clearing operations.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1433	The simulator excavator training module must have exercises to teach the operator to excavate a trench with a flat bottom according to specifications.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1437	The simulator excavator training module must have exercises to teach the operator to fill a trench.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1435	The simulator excavator training module must have exercises to teach the operator to unload the removed material in a designated area on the ground.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1436	The simulator excavator training module must have exercises to teach the operator to unload the removed material to a dump truck.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1424	The simulator excavator training module must have exercises to teach the operator to perform road constructions.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1425	The simulator excavator training module must have exercises to teach the operator to perform a side hill cut.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1426	The simulator excavator training module must have exercises to teach the operator to construct a road by excavating material.	Mandatory Requirement	Test - User trial	Canada

1. ID	2. Requirement	3. Requirement Type	4. Verification Method	5. Responsible Party
SSS-SIM-1428	The simulator evacuator training module must have exercises to teach the operator to perform lifting operations.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1413	The simulator excavator training module must have exercises to test the operator on creating a trafficable lane 3m L x 2m H x 4m W within five (5) minutes.	Option	Test - User trial	Canada
SSS-SIM-1438	The simulator excavator training module must have exercises to test the operator on creating a trafficable ramp (1:3 slope) 3m W x 10m L within twenty (20) minutes.	Option	Test - User trial	Canada
SSS-SIM-1439	The simulator excavator training module must have exercises to test the operator on excavating a position 2m D x 3.5m W x 7.5m L with a trafficable ramp (1:3) within sixty (60) minutes.	Option	Test - User trial	Canada
SSS-SIM-1415	The simulator excavator program must have a sandbox module.	Option	Test - User trial	Canada
SSS-SIM-1416	The simulator excavator sandbox module must allow the operator to have the freedom to experiment with the excavator operation in a realistic virtual environment.	Option	Test - User trial	Canada
SSS-SIM-2596	The simulator excavator sandbox module must have exercises to teach all safety considerations.	Option	Test - User trial	Canada
SSS-SIM-2602	The simulator excavator sandbox module must have exercises to allow the operator to fill in a trench with customized trench dimensions (length, width and depth).	Option	Test - User trial	Canada
SSS-SIM-1441	The Simulator must have a program that simulates a grader.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1446	The simulator grader training module must have exercises to teach a grader operator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1447	The simulator grader training module must have exercises to test a grader operator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1450	The simulator grader training module must have exercises to teach the operator to conduct pre-operational inspection.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1451	The simulator grader training module must have exercises to test the operator on pre-operational inspection.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1452	The simulator grader training module pre-operational inspection exercises must have exercises to test the operator on randomized equipment faults.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1454	The simulator grader training module must have exercises to teach the operator to operate a single control or a few controls of the machine, such as a button, a joystick, a pedal, or a touchpad for machine interface.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1456	The simulator grader training module control exercises must include all controls used in any of the simulator grader training module.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1459	The simulator grader training module must have exercises to teach the operator to drive the grader forward.	Mandatory Requirement	Test - User trial	Canada

1. ID	2. Requirement	3. Requirement Type	4. Verification Method	5. Responsible Party
SSS-SIM-1460	The simulator grader training module driving forward module must have training exercises consisting of multiple driving paths that the operator has to follow.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1461	The simulator grader training module driving forward exercises must have exercises to test the operator on driving within the boundaries of the driving path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1465	The simulator grader training module must have exercises to teach the operator to drive the grader backward.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1466	The simulator grader training module driving backward module must have training exercises consisting of multiple driving paths that the operator has to follow.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1467	The simulator grader training module driving backward exercises must have exercises to test the operator on driving within the boundaries of the driving path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1471	The simulator grader training module must have exercises to teach the operator to drive the grader in directions requiring switching between forward and backward driving.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1472	The simulator grader training module maneuvering exercises must have training exercises consisting of multiple driving paths that the operator has to follow.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1473	The simulator grader training module maneuvering exercises must have exercises to test the operator on driving within the boundaries of the driving path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1474	The simulator grader training module maneuvering exercises must have exercises to teach the operator to park the grader within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1475	The simulator grader training module maneuvering exercises must have exercises to test the operator on parking the grader within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1477	The simulator grader training module must have exercises to teach the operator to control the blade.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1478	The simulator grader training module blade positioning exercises must have training exercises consisting of multiple paths that the operator has to move the blade along.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1479	The simulator grader training module blade positioning exercises must have exercises to test the operator on moving the blade within the boundaries of a path.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1480	The simulator grader training module blade positioning exercises must have exercises to teach the operator to position the blade within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1481	The simulator grader training module blade positioning exercises must have exercises to test the operator on positioning the blade within a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1483	The simulator grader training module must have exercises to teach the operator to drive the grader onto a trailer.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1484	The simulator grader training module driving the grader on a trailer exercises must include all safety considerations.	Mandatory Requirement	Test - User trial	Canada

1. ID	2. Requirement	3. Requirement Type	4. Verification Method	5. Responsible Party
SSS-SIM-1485	The simulator grader training module driving the grader on a trailer exercises must have exercises to teach the operator to position the grader on a trailer.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1486	The simulator grader training module driving the grader on a trailer exercises must have exercises to test the operator on positioning the grader within the trailer boundaries.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1487	The simulator grader training module driving the grader on a trailer exercises must have exercises to teach the operator to secure the grader on the trailer using simulated chains and tie downs.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1488	The simulator grader training module driving the grader on a trailer exercises must have exercises to teach the operator to unsecure the grader using simulated chains and tie downs.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1489	The simulator grader training module driving the grader on a trailer exercises must have exercises to teach the operator to drive the grader off a trailer.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1495	The simulator grader training module must have exercises to teach the operator to perform grader tasks.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1497	The simulator grader training module must have exercises to teach the operator to level a designated area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1521	The simulator grader training module must have exercises to teach the operator to level a designated area by moving excess material to the side.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1522	The simulator grader training module must have exercises to teach the operator to level a designated area by finishing crown or cross slope.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1523	The simulator grader training module must have exercises to teach the operator to conduct road maintenance.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1507	The simulator grader training module must have exercises to teach the operator to operate a scarifier.	Option	Test - User trial	Canada
SSS-SIM-1508	The simulator grader training module must have exercises to teach the operator to operate a wing plow.	Option	Test - User trial	Canada
SSS-SIM-1513	The simulator grader training module must have exercises to teach the operator to operate a V plow.	Option	Test - User trial	Canada
SSS-SIM-2436	The simulator grader training module must have exercises to teach the operator to operate a moldboard.	Option	Test - User trial	Canada
SSS-SIM-2437	The simulator grader training module must have exercises to teach the operator to operate a push blade.	Option	Test - User trial	Canada
SSS-SIM-2438	The simulator grader training module must have exercises to teach the operator to operate a one way plow.	Option	Test - User trial	Canada

1. ID	2. Requirement	3. Requirement Type	4. Verification Method	5. Responsible Party
SSS-SIM-1515	The simulator grader training module must have exercises to test the operator on constructing a road 12m W x 300m L W within twelve (12) minutes.	Option	Test - User trial	Canada
SSS-SIM-1519	The simulator grader program must have a sandbox module.	Option	Test - User trial	Canada
SSS-SIM-1520	The simulator grader sandbox module must allow the operator to have the freedom to experiment with the grader operation in a realistic virtual environment.	Option	Test - User trial	Canada
SSS-SIM-2597	The simulator grader sandbox module must have exercises to teach all safety considerations.	Option	Test - User trial	Canada
SSS-SIM-1526	The simulator must have a program that simulates a crane.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2424	The simulated crane must be based on an existing crane with lift capacity of 40,000 kg or more (at 3 m); travel speed at 40km/h or more; and maximum telescopic boom extension of 30 m or more.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2858	The simulated crane must have removable counterweights pinned to the superstructure.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2725	The simulated crane must have a load moment indicator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2726	The simulated crane load moment indicator must provide simulated load information.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2729	The simulated crane must have a crane load chart.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1530	The simulator crane program must have a training module.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1531	The simulator crane training module must have exercises to teach a mobile crane operator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1532	The simulator crane training module must have exercises to test a mobile crane operator.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1535	The simulator crane training module must have exercises to teach the operator to conduct pre-operational inspection.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1536	The simulator crane training module must have exercises to test the operator on pre-operational inspection.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1537	The simulator crane training module pre-operational inspection exercises must have exercises to test the operator on randomized equipment faults.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1539	The simulator crane training module must have exercises to teach the operator to operate a single control or a few controls of the machine, such as a button, a joystick, a pedal, or a touchpad for machine interface.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1541	The simulator crane training module control exercises must include all controls used in the simulator crane training modules.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1562	The simulator crane training module must have exercises to teach the operator to control the outriggers by extending them to certain positions.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1600	The simulator crane training module must have exercises to teach the operator to control the outriggers by retracting them for storage.	Mandatory Requirement	Test - User trial	Canada

1. ID	2. Requirement	3. Requirement Type	4. Verification Method	5. Responsible Party
SSS-SIM-2825	The simulator crane training module must have exercises to teach the operator to install and uninstall counterweights.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1601	The simulator crane training module boom positioning exercises must have training exercises consisting of multiple distances.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1580	The simulator crane training module must have exercises to teach the operator to perform boom lift tasks within a 360 degree area.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1604	The simulator crane training module must have training hook block positioning exercises .	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1588	The simulator crane training module hook block exercises must teach the operator to pay in the hook block.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1603	The simulator crane training module hook block exercises must teach the operator to pay out the hook block.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1589	The simulator crane training module hook block must have exercises to teach the operator to pick up and move various items to designated areas.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1611	The simulator mobile crane training module should have exercises to teach the operator to perform raising and swinging in unison.	Rated Requirement	Test - User trial	Canada
SSS-SIM-1608	The simulator mobile crane training module must have exercises to teach the operator to perform lift operations.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-2632	The simulator mobile crane training module must have exercises to test the operator to perform lift operations.	Mandatory Requirement	Test - User trial	Canada
SSS-SIM-1607	The simulator mobile crane training module should have exercises to teach the operator to perform dual crane lift.	Rated Requirement	Test - User trial	Canada
SSS-SIM-1598	The simulator mobile crane program must have a sandbox module.	Option	Test - User trial	Canada
SSS-SIM-1599	The simulator mobile crane sandbox module must allow the operator to have the freedom to experiment with the mobile crane operation in a realistic virtual environment.	Option	Test - User trial	Canada
SSS-SIM-2598	The simulator mobile crane sandbox module must have exercises to teach all safety considerations.	Option	Test - User trial	Canada
SSS-SIM-1674	The Simulator must have a program that simulates a forklift.	Option	Test - User trial	Canada
SSS-SIM-2425	The simulated forklift must be based on a medium forklift with rated capacity of 3000 kg or more.	Option	Test - User trial	Canada
SSS-SIM-1678	The simulator forklift program must have a training module.	Option	Test - User trial	Canada
SSS-SIM-1679	The simulator forklift training module must have exercises to teach a forklift operator.	Option	Test - User trial	Canada
SSS-SIM-1680	The simulator forklift training module must have exercises to test a forklift operator.	Option	Test - User trial	Canada
SSS-SIM-1683	The simulator forklift training module must have exercises to teach the operator to conduct pre-operational inspection.	Option	Test - User trial	Canada

1. ID	2. Requirement	3. Requirement Type	4. Verification Method	5. Responsible Party
SSS-SIM-1684	The simulator forklift training module must have exercises to test the operator on pre-operational inspection.	Option	Test - User trial	Canada
SSS-SIM-1685	The simulator forklift training module pre-operational inspection exercises must have exercises to test the operator on randomized equipment faults.	Option	Test - User trial	Canada
SSS-SIM-1687	The simulator forklift training module must have exercises to teach the operator to operate primary and secondary controls of the forklift.	Option	Test - User trial	Canada
SSS-SIM-1689	The simulator forklift training module control exercises must include all controls used in the simulator forklift training modules.	Option	Test - User trial	Canada
SSS-SIM-2634	The simulator forklift training module must have exercises to teach the operator to control the mast.	Option	Test - User trial	Canada
SSS-SIM-2635	The simulator forklift training module must have exercises to teach the operator to raise the mast.	Option	Test - User trial	Canada
SSS-SIM-2636	The simulator forklift training module must have exercises to teach the operator to lower the mast.	Option	Test - User trial	Canada
SSS-SIM-2637	The simulator forklift training module must have exercises to teach the operator to tilt the mast.	Option	Test - User trial	Canada
SSS-SIM-1715	The simulator forklift training module must have exercises to teach the operator to drive the forklift forward following a path.	Option	Test - User trial	Canada
SSS-SIM-2300	The simulator forklift training module driving forward exercises must have exercises to test the operator on driving within the boundaries of the driving path.	Option	Test - User trial	Canada
SSS-SIM-1716	The simulator forklift training module must have exercises to teach the operator to drive the forklift backward following a path.	Option	Test - User trial	Canada
SSS-SIM-1734	The simulator forklift training module driving backward exercises must have exercises to test the operator on driving within the boundaries of the driving path.	Option	Test - User trial	Canada
SSS-SIM-1737	The simulator forklift training module must have exercises to teach the operator to drive the forklift in directions requiring switching between forward and backward driving.	Option	Test - User trial	Canada
SSS-SIM-1738	The simulator forklift training module maneuvering exercises must have training exercises consisting of multiple driving paths that the operator must follow.	Option	Test - User trial	Canada
SSS-SIM-1739	The simulator forklift training module maneuvering exercises must have exercises to test the operator on driving within the boundaries of the driving path.	Option	Test - User trial	Canada
SSS-SIM-1740	The simulator forklift training module maneuvering exercises must have exercises to teach the operator to park the forklift within a designated area.	Option	Test - User trial	Canada
SSS-SIM-1741	The simulator forklift training module maneuvering exercises must have exercises to test the operator on parking the forklift within a designated area.	Option	Test - User trial	Canada

1. ID	2. Requirement	3. Requirement Type	4. Verification Method	5. Responsible Party
SSS-SIM-2836	The simulator forklift training module maneuvering exercises must have exercises to teach the operator to perform omnidirectional (crab) steering.	Option	Test - User trial	Canada
SSS-SIM-2739	The simulator forklift training module maneuvering exercises must have exercises to test the operator to perform omnidirectional (crab) steering.	Option	Test - User trial	Canada
SSS-SIM-1692	The simulator forklift training module must have exercises to test the operator to control the mast.	Option	Test - User trial	Canada
SSS-SIM-1693	The simulator forklift training module must have exercises to test the operator to raise the mast.	Option	Test - User trial	Canada
SSS-SIM-1712	The simulator forklift training module must have exercises to test the operator to lower the mast.	Option	Test - User trial	Canada
SSS-SIM-1713	The simulator forklift training module must have exercises to test the operator to tilt the mast.	Option	Test - User trial	Canada
SSS-SIM-1695	The simulator forklift training module must have exercises to teach the operator to shift the fork table left to pick up an object.	Option	Test - User trial	Canada
SSS-SIM-1696	The simulator forklift training module must have exercises to teach the operator to shift the fork table right to pick up an object.	Option	Test - User trial	Canada
SSS-SIM-1698	The simulator forklift training module must have exercises to teach the operator to lift objects with the forks.	Option	Test - User trial	Canada
SSS-SIM-1699	The simulator forklift training module must have exercises to teach the operator to use the forks to reposition objects before lifting them.	Option	Test - User trial	Canada
SSS-SIM-1727	The simulator forklift training module must have exercises to teach the operator to lower objects with the forks.	Option	Test - User trial	Canada
SSS-SIM-1753	The simulator forklift training module must have exercises to teach the operator to drive the forklift onto a trailer.	Option	Test - User trial	Canada
SSS-SIM-1754	The simulator forklift training module driving the forklift on a trailer exercises must include all safety considerations.	Option	Test - User trial	Canada
SSS-SIM-1755	The simulator forklift training module driving the forklift on a trailer must have exercises to teach the operator to position the forklift on a trailer.	Option	Test - User trial	Canada
SSS-SIM-1756	The simulator forklift training module driving the forklift on a trailer exercises must have exercises to test the operator on positioning the forklift within the trailer boundaries.	Option	Test - User trial	Canada
SSS-SIM-1757	The simulator forklift training module driving the forklift on a trailer exercises must have exercises to teach the operator to secure the forklift using simulated chains and tie downs.	Option	Test - User trial	Canada
SSS-SIM-1758	The simulator forklift training module driving the forklift on a trailer exercises must have exercises to teach the operator to unsecure the forklift using simulated chains and tie downs.	Option	Test - User trial	Canada

1. ID	2. Requirement	3. Requirement Type	4. Verification Method	5. Responsible Party
SSS-SIM-1759	The simulator forklift training module driving the forklift on a trailer exercises must have exercises to teach the operator to drive the forklift off a trailer.	Option	Test - User trial	Canada
SSS-SIM-1718	The simulator forklift training module must have exercises to teach the operator to drive the forklift to a designated area to lift an object.	Option	Test - User trial	Canada
SSS-SIM-1745	The simulator forklift training module must have exercises to teach the operator to drive the forklift to a designated area to off load an object on the ground.	Option	Test - User trial	Canada
SSS-SIM-1746	The simulator forklift training module must have exercises to teach the operator to drive the forklift to a designated area to lift an object on a raised platform.	Option	Test - User trial	Canada
SSS-SIM-1747	The simulator forklift training module must have exercises to teach the operator to drive the forklift to a designated area to off load an object on a raised platform.	Option	Test - User trial	Canada
SSS-SIM-1748	The simulator forklift training module must have exercises to teach the operator to drive the forklift to a designated area to extend the mast to pick up an object.	Option	Test - User trial	Canada
SSS-SIM-1749	The simulator forklift training module must have exercises to teach the operator to drive the forklift to a designated area to extend the mast to off load an object.	Option	Test - User trial	Canada
SSS-SIM-1750	The simulator forklift training module must have exercises to teach the operator to drive the forklift to a designated area to shift the fork table to pick up an object.	Option	Test - User trial	Canada
SSS-SIM-1751	The simulator forklift training module must have exercises to teach the operator to drive the forklift to a designated area to shift the fork table to off load an object.	Option	Test - User trial	Canada
SSS-SIM-2659	A simulator housing unit must house at least one motion simulator, two portable simulators (deployed), one instructor station, all associated controls, furniture, printers, controls, displays, computers, portable simulator transportation cases, desks, chairs and cabinets.	Mandatory Requirement	Demonstration	Contractor
SSS-SIM-2670	A simulator housing unit must have enough room to hold at least 4 extra persons in addition to what is specified in SSS-SIM-2659, three students at the operator stations and one instructor at the instructor station.	Mandatory Requirement	Demonstration	Contractor
SSS-SIM-2351	The simulator housing layout must be designed for easy access to the operator stations and the instructor stations.	Mandatory Requirement	Demonstration	Contractor
SSS-SIM-2362	The simulator housing layout must be designed for easy access to the printer.	Mandatory Requirement	Demonstration	Contractor
SSS-SIM-2744	The simulator housing must comply with the National Standard of Canada CAN/UL 2600:2019, Relocatable Buildings.	Mandatory Requirement	Certification	Contractor
SSS-SIM-2864	The simulator housing must meet or exceed all federal and provincial electrical codes.	Mandatory Requirement	Certification	Contractor
SSS-SIM-2865	The simulator housing electrical and heating materials must be compliant with CSA standards.	Mandatory Requirement	Certification	Contractor
SSS-SIM-1826	The simulator housing must comply with the National Fire Code of Canada (latest version).	Mandatory Requirement	Certification	Contractor

1. ID	2. Requirement	3. Requirement Type	4. Verification Method	5. Responsible Party
SSS-SIM-2316	The simulator housing must comply with the Canadian Forces Fire Marshall Directive FMD 4003 "Fire Protection and Life Safety Engineering Design" (latest revision).	Mandatory Requirement	Certification	Contractor
SSS-SIM-2317	The simulator housing must comply with the fire separations of level II IT facilities in accordance with the Canadian Forces Fire Marshall Directive FMD 4003 "Fire Protection and Life Safety Engineering Design" (latest revision).	Mandatory Requirement	Certification	Contractor
SSS-SIM-2318	The simulator housing must have the supplementary clean agent fire extinguishing system in accordance with Canadian Forces Fire Marshall Directive FMD 4003 "Fire Protection and Life Safety Engineering Design" (latest revision).	Mandatory Requirement	Certification	Contractor
SSS-SIM-2319	The simulator housing must comply with the fire alarm system of Level II IT facilities in accordance with Canadian Forces Fire Marshall Directive FMD 4003 "Fire Protection and Life Safety Engineering Design" (latest revision).	Mandatory Requirement	Certification	Contractor
SSS-SIM-2687	The UPS must meet IEC 62040-1 safety requirements.	Mandatory Requirement	Certification	Contractor