

ANNEX F: USABILITY EVALUATION

Introduction

The Usability Evaluation will capture the user experience of RCMP end-users while operating the configured pistol (affixed red dot sight [RDS] and weapon light) and general duty holster. It will be conducted as per the methodology outlined in this Annex. The assessment will consist of several operationally-based activities that are focused on the evaluator's assessment of their ability to safely, effectively, and successfully complete manipulations and live-fire while using the configured pistol and general duty holster. It will consist of the following components:

1. **Classroom Table Top Component** - This operationally-based user assessment is conducted in a classroom setting and serves to assess the user experience while manipulating the Bidder's configured pistol offering, without live ammunition, after a familiarization period of approximately 10 minutes. The classroom table top component will last a maximum of 45 minutes.
2. **Live Fire Component** - This operationally-based user assessment serves to assess the user experience while shooting the Bidder's configured pistol. The assessment will last a maximum of 30 minutes and consist of two (2) portions:
 - a. **Manipulation** - Ease of use of the Bidder's configured pistol and general duty holster.
 - b. **Evaluator Accuracy** - Marksmanship scoring using the RCMP's standardized silhouette target.

Each activity will be evaluated quantitatively through the use of a systematic user rating on a 4-point Likert-type scale. The use of such a scale will provide a clear and understandable quantification of the evaluator's user experience in a controlled manner. The rubric and score for the Likert scale will be as follows:

Scale Rating	Definition	Score
Does not Meet	Unusable for the described task, or unable to complete the described task.	0 points
Met with Difficulty	Although the described task was able to be performed, there was a need for a total of either 2 or more attempts to complete the described task, the need to verify or confirm usage instructions 2 or more times – or a combination of 2 or more of both.	1 point
Met	The described task was able to be performed, and there was only a need for 1 adjustment/correction to complete the described task, or the need to verify or confirm usage instructions once.	3 points
Met Without any Difficulty	Performed the described task without the need for any clarifications, additional attempts or complications.	5 points

Evaluators will conduct and record the results for each evaluation component using the surveys provided in order to collect user feedback. Evaluations will be conducted at an RCMP-approved range over a period not to exceed ten (10) business days.

If there is a critical failure in the Bidder's pistol at any time during the Usability Evaluation, their bid will not be given further consideration, and it will be deemed non-compliant. Should there be technical or logistical issues outside of the Bidder's control, the Bidder will not be penalized and the evaluation will continue once Canada has resolved the issue.

Evaluators

Usability Evaluations will be conducted by RCMP end-users (regular members) and observed by the PSPC Contracting Authority and the Fairness Monitor. The evaluators will:

- Be composed of RCMP police officers, including left and right-handed users, of a variety of physical sizes;
- Include up to sixty (60) evaluators, with a minimum of fifty (50), whom will complete each of the Usability Evaluation components;
- Include a minimum female participation of 30%; and
- Wear the RCMP Uniform.

Where required, and as outlined in the evaluation methodology, evaluators will wear RCMP standard issue slash gloves in order to complete specific evaluations. Unless otherwise specified, all components of the Usability Evaluation will be conducted in English.

Each usability evaluator must complete all tasks within each component. Should an evaluator become incapacitated or unavailable to complete the Usability Evaluation, the activity will be deemed incomplete for that evaluator and none of their results will be included in the Usability Evaluation. The evaluation will be performed again with a different evaluator.

Component Score

The following calculations will be completed for each pistol:

For each evaluator, each question will be scored using the scale rating (see table above). Each evaluator's ratings will be summed within each portion: 1) classroom table top, 2) live-fire manipulations, and 3) evaluator accuracy, to create a total portion score. The portion score will be divided by the maximum total portion score (see table below).

To address the potential risk of an evaluator missing a question, the maximum total portion score will be adjusted to avoid penalizing a vendor for a missed question/rating as demonstrated below.

Example: In the Classroom Table Top portion there are 40 questions for a maximum total portion score of 200 points. The evaluator has a total portion score of 165; however, missed rating three questions. Subtracting the maximum total portion score (200 points) by the number of

missed questions times 5 points each ($3 \times 5 = 15$ points) provides an adjusted maximum total portion score of 185 points. Dividing the total portion score by the maximum (adjusted) total portion score and multiplying by 100, provides a portion percentage score of 88% for that evaluator ($165/185 \times 100 = 89\%$).

A weighted total individual score will then be calculated by multiplying each portion percentage score by the respective % of Usability Evaluation (see table below). For example, the evaluator had portion percentage scores of:

- 1) 89% for classroom table top $\times 20\% = 17.8$
- 2) 75% live-fire manipulations $\times 50\% = 37.5$
- 3) 90% evaluator of accuracy $\times 30\% = 27.0$

This provides a total weighted individual score of 82.3.

The Usability Evaluation Total (across all evaluators) will be calculated by averaging all the total weighted individual scores. To ensure equal gender representation, if female participation is below 50%, Canada will weight female participant evaluations to 50% of the total Usability Evaluation score. In this case, the total weighted individual scores will be averaged within females and within males. Female and male Usability Evaluation score will then be multiplied by 50% and added together.

For example, a female Usability Evaluation score of 70 and a male Usability Evaluation score of 80, would result in a Usability Evaluation Total of 75.

Bidders will not be allotted points if their Usability Evaluation Total score is below 50 (i.e., 50%), the bottom 50th percentile will be trimmed (i.e., any score from 0-50 will become 0; 50 will be subtracted from any score above 50). The trimmed score will then be doubled to make it out of 100 and then multiplied by the final weighting (20%) from the Evaluation Procedures and Basis of Selection table.

For example:

- $40 - 50 = 0 \times 2 = 0 \times 20\% = 0$
- $50 - 50 = 0 \times 2 = 0 \times 20\% = 0$
- $60 - 50 = 10 \times 2 = 20 \times 20\% = 4$
- $70 - 50 = 20 \times 2 = 40 \times 20\% = 8$
- $75 - 50 = 25 \times 2 = 50 \times 20\% = 10$
- $80 - 50 = 30 \times 2 = 60 \times 20\% = 12$
- $90 - 50 = 40 \times 2 = 80 \times 20\% = 16$
- $100 - 50 = 50 \times 2 = 100 \times 20\% = 20$

Component	Portion		Number of questions	Maximum score per question	Maximum total score	% of Usability Evaluation
Component #1	Classroom Table Top		40	5 pts	200 pts	20%
Component #2	Live Fire	Manipulation	16	5 pts	80 pts	50%
		Evaluator Accuracy	N/A	N/A	130 pts	30%
Usability Evaluation Total:			56			100%

Bidder Set-up Responsibilities

Each bidder must provide Canada with the items listed in the table below to carry out the Usability Evaluation. The items provided must be the same models proposed in their bid response and must be delivered to the Armoury in Ottawa, Ontario (Ottawa NCR Armoury, Technical and Protective Operations Facility (TPOF), Room 408, 1426 St. Joseph Blvd, Orleans, ON, K1A 0R2, Attn: Shipping & Receiving, (613) 993-3100) no later than sixty (60) days after bid closing (address will be provided after bid closing).

The items and quantities required are as follows:

Item	Quantity	Item	Quantity
Pistol (pre-Sighted and zeroed)	6	RDS	6
LED Weapon Light	6	General Duty Holster (6 right handed and 2 left handed)	8
Magazines	18	Carrying Case	6
Grip Sizing Components	Quantity based on bid submission. Minimum of 3 per pistol.	Maintenance Kits	As per manufacturer's service requirements

Tools and Test Equipment	As per manufacturer's recommended service requirements		
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The Bidder must configure all pistols with a RDS and weapon light prior to shipping them to Canada. The RDS must be pre-sighted and zeroed.

The Bidder must supply all user manual(s) and instructions for all provided products. The user manuals must provide sufficient detail for evaluators to use as a reference to carry out the Usability Evaluation. PSPC and the fairness monitor will be in attendance throughout.

RCMP Set-up Responsibilities

The RCMP will carry out the evaluations at one or more RCMP-approved facilities. Evaluation facilities will be equipped to support classroom activities and live fire shooting. Prior to conducting the Usability Evaluation, the RCMP will clean and lubricate (using RCMP approved lubricant) the configured pistols as per each manufacturer's specifications. The RCMP will inspect, gauge, and confirm the zero to verify that pistols are safe to fire prior to live fire evaluations. For live fire components of the Usability Evaluation, the RCMP will service the pistol and ancillary equipment as per the manufacturer's recommended parts replacement and cleaning protocols. For any weapon that is deemed unsafe to fire (poses risk of injury or death), the reasons will be recorded and the bid will be deemed noncompliant and given no further consideration.

Usability Evaluation Methodology

The Usability Evaluation will include a classroom and a live-fire component which will be conducted at an RCMP approved facility by the selected evaluators. The Usability Evaluation will be conducted with the bidder's proposed pistol bundle in the hands of an RCMP evaluator. Each participant will conduct the classroom portion and live-fire portions of each pistol bundle provided by the Bidders. The evaluation will be conducted as follows:

1. **Pistol Selection:** In the classroom and on the range, each pistol will be randomly assigned to a station number (station #1 – pistol X, station #2 – pistol Y). The station numbers will be randomly reassigned each test day (to avoid the same pistol consistently coming before or after another pistol or being consistently located in the same shooting lane on the range). The evaluators will be randomly assigned numbers consistent with the number of successful bids at this portion of the process (e.g., if five (5) offerings are still eligible, candidates will be grouped into groups of five (5)). Each evaluator will complete the classroom table top component before the live fire component. All random assignment will be done through a random number generator (including, but not limited to, the evaluators, Subject Matter Experts, and pistol assignment).

2. **Classroom Presentation:** The classroom presentation will include an overview of the evaluation, rating matrix/system, and a review of the functionality of each pistol to be evaluated to familiarize all participants with each individual pistol.
3. **Pistol Fitting:** Each evaluator will be provided with a pistol that has been deemed safe to fire by an RCMP armourer. The pistol will be disassembled, cleaned, and lubricated at the end of each day (or as per the manufacturer's instructions) by the RCMP armourer. The evaluator will:
 - i. be sized for the pistol and provided with an appropriately sized grip based on the manufacturer's instructions; and
 - ii. mount the bidder-provided holster to their RCMP-issued general duty belt.
4. **Quick Reference Guide:** The Bidder must supply (a) user manual(s) for all provided products that provides sufficient detail for evaluators to use as a reference to carry out the Usability Evaluation. The Bidder must also supply (a) user manual(s) or instructions to provide Canada with any additional information they may require to complete the set-up of the Usability Evaluation.
5. **Familiarization:** Each RCMP evaluator will receive familiarization with each of the Bidders configured pistol and holster prior to conducting the classroom and live-fire evaluation. The Bidder is to provide an electronic or paper-based Quick Reference Guide to the evaluator during the familiarization period. Should the evaluator have any questions regarding the pistol's functionality, an RCMP provided Subject Matter Expert (SME) will provide a pistol walkthrough consistent with the manufacturer's instructions. The SME will be randomly paired with an evaluator and follow the evaluator throughout the course of the evaluation. The familiarization period will not exceed ten (10) minutes per pistol.
6. **SME Demonstration:** Evaluators will be provided a one-on-one demonstration of pistol assembly/disassembly based on the manufacturer's instructions after the familiarization period.
7. **Paper Evaluation:** Evaluators will be provided with evaluation grids at the beginning of each trial. The evaluators will fill out evaluation grids in the following manner:
 - i. **Classroom Table Top Component:** Evaluators will fill out the appropriate sections of the grid after each manipulation.
 - ii. **Live Fire Component:** Evaluators will fill out the Live Fire grid after the completion of all the live fire exercises.
 - a. **Evaluator Accuracy:** SMEs will record the total score per pistol for each evaluator in the space provided beneath the evaluation grids.
8. **Classroom Table Top Component:**
 - i. This portion of the usability component will represent 20% of the final score.
 - ii. This portion of the usability component will not exceed forty-five (45) minutes per offering.
 - iii. The following manipulations will be performed and scored:

Manipulation	Instructions
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Safety Check 1- Overhand Grip:	<p>Each evaluator will carry out the following tasks:</p> <ol style="list-style-type: none"> 1. Orient the muzzle of the configured pistol in a safe direction; 2. Maintain finger off the trigger along the frame; 3. Grasp the slide using an overhand grip; 4. Pull the slide to the rear; 5. Using the slide lock mechanism, lock the slide in the open position; 6. Perform a physical and visual inspection of the firing chamber and magazine well; 7. Grasp the slide using an overhand grip; and 8. Pull back the slide to release the slide lock mechanism to allow the slide to go forward.
Safety Check 2 - Optic Housing:	<p>Each evaluator will carry out the following tasks:</p> <ol style="list-style-type: none"> 1. Orient the muzzle of the configured pistol in a safe direction; 2. Maintain finger off the trigger along the frame; 3. Using the knife edge of their hand on the front corner of the optic housing, pull the slide to the rear; 4. Using the slide lock mechanism, lock the slide in the open position; 5. Perform a physical and visual inspection of the firing chamber and magazine well; and 6. Using the knife edge of your hand on the front corner of the optic housing, pull back the slide to release the slide lock mechanism to allow the slide to go forward.
Safety Check 3 - Slingshot:	<p>Each evaluator will carry out the following tasks:</p> <ol style="list-style-type: none"> 1. Orient the muzzle of the configured pistol in a safe direction; 2. Maintain finger off the trigger along the frame; 3. Grasp the slide using a slingshot grip; 4. Pull the slide to the rear; 5. Using the slide lock mechanism, lock the slide in the open position; 6. Perform a physical and visual inspection of the firing chamber and magazine well; 7. Grasp the slide using a slingshot grip; and 8. Pull back the slide to release the slide lock mechanism to allow the slide to go forward.

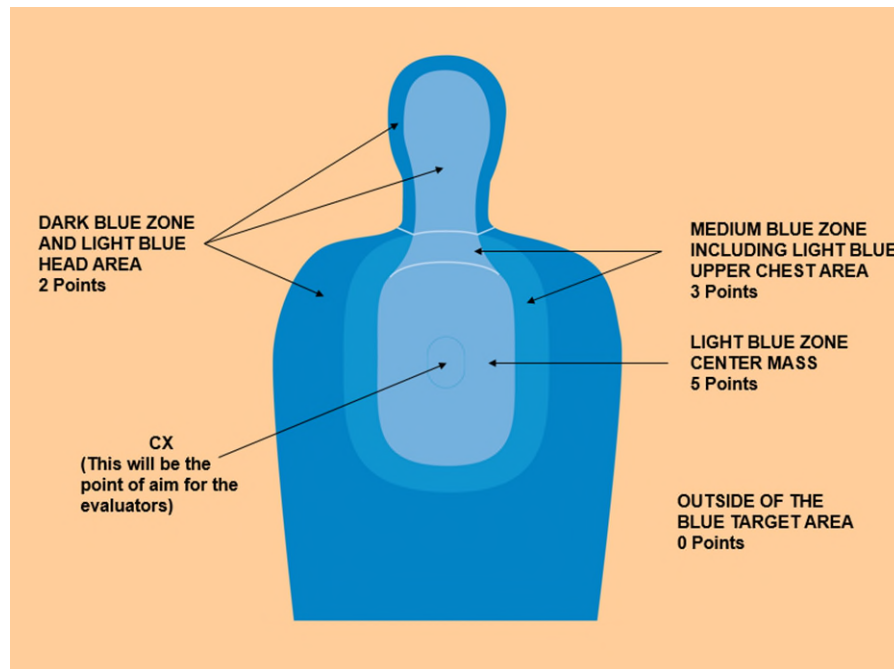
Basic Manipulation 1 - Overhand Grip:	<p>Each evaluator will carry out the following tasks:</p> <ol style="list-style-type: none"> 1. Orient the muzzle of the configured pistol in a safe direction; 2. Press and hold the trigger all the way to the rear to release the firing pin; 3. While maintaining the trigger to the rear, cycle the slide using an overhand grip; 4. Release the trigger slowly, determine trigger reset, and place finger on the frame of the pistol; 5. Index an empty magazine and insert it into the pistol; 6. Grasp the slide using an overhand grip and pull it to the rear, the slide should lock in the open position; 7. Depress the magazine release and allow the magazine to fall free; 8. Grasp the slide using an overhand grip and pull back to release the slide lock mechanism to allow the slide to go forward; and 9. Repeat steps 1 to 8 once wearing RCMP standard issue slash gloves.
Basic Manipulation 2 - Optic Housing:	<p>Each evaluator will carry out the following tasks:</p> <ol style="list-style-type: none"> 1. Orient the muzzle of the configured pistol in a safe direction; 2. Press and hold the trigger all the way to the rear to release the firing pin; 3. While maintaining the trigger to the rear, cycle the slide using the knife edge of your hand on the front casing of the optic housing; 4. Release the trigger slowly, determine trigger reset, and place finger on the frame of the pistol; 5. Index an empty magazine and insert it into the pistol; 6. Pull the slide to the rear using the knife edge of your hand on the front casing of the optic housing, the slide should lock in the open position; 7. Depress the magazine release and allow the magazine to fall free; and 8. Pull the slide to the rear using the knife edge of your hand on the front casing of the optic housing to release the slide lock mechanism and allow the slide to go forward; and 9. Repeat steps 1 to 8 once wearing RCMP standard issue slash gloves.

Basic Manipulation 3 - Slingshot:	<p>Each evaluator will carry out the following tasks:</p> <ol style="list-style-type: none"> 1. Orient the muzzle of the configured pistol in a safe direction; 2. Press and hold the trigger all the way to the rear to release the firing pin; 3. While maintaining the trigger to the rear, cycle the slide using a slingshot grip; 4. Release the trigger slowly, determine trigger reset, and place finger on the frame of the pistol; 5. Index an empty magazine and insert it into the pistol; 6. Grasp the slide using a slingshot grip and pull it to the rear, the slide should lock in the open position; 7. Depress the magazine release and allow the magazine to fall free; and 8. Grasp the slide using a slingshot grip and pull back to release the slide lock mechanism to allow the slide to go forward.
Basic Manipulation 4 - Ancillaries	<p>Each evaluator will carry out the following tasks:</p> <ol style="list-style-type: none"> 1. Orient the muzzle of the configured pistol in a safe direction; 2. Turn on the RDS as per the manufacturer's instructions; 3. Adjust the RDS intensity as per the manufacturer's instructions; 4. Determine the RDS intensity in accordance with current lighting conditions; 5. Turn on the momentary on function for the weapon light as per the manufacturer's instructions; 6. Turn on the constant on function for the weapon light as per the manufacturer's instructions; and 7. Turn off the constant on function for the weapon light as per the manufacturer's instructions.
Basic Manipulation 5 - General Duty Holster	<p>Dominant Hand Draw</p> <p>Each evaluator will carry out the following tasks:</p> <ol style="list-style-type: none"> 1. Secure the configured pistol in the holster as per the manufacturer's instructions; 2. Draw the configured pistol from the holster using their dominant hand only; 3. Orient the muzzle of the configured pistol in a safe direction; 4. Repeat steps 1 to 3 two (2) more times; and 5. Repeat steps 1 to 4 once wearing RCMP standard issue slash gloves. <p>Support Hand Draw</p> <p>Each evaluator will carry out the following tasks:</p> <ol style="list-style-type: none"> 1. Secure the configured pistol in the holster as per the manufacturer's instructions; 2. Draw the configured pistol from the holster using their support hand only;

	<p>3. Orient the muzzle of the configured pistol in a safe direction; and</p> <p>Repeat steps 1 to 3 two (2) more times.</p>
Field Strip	As per the manufacturer's instructions.
Assembly	<p>As per the manufacturer's instructions.</p> <p>Note: Prior to continuing to the live fire exercise, RCMP armourers will conduct a function check as per the manufacturer's instructions and perform a visual inspection to confirm the pistol is in working order.</p>

9. Live Fire component:

- i. This portion of the usability evaluation will represent 80% of the final score. It will be broken down as follows:
 - a. **“Manipulation” will represent 50% of the Usability Evaluation final score.** This self-assessment of the configured pistol and holster functionality will be evaluated with live fire exercises and be scored at the end of this component.
 - b. **“Evaluator Accuracy” will represent 30% of the Usability Evaluation final score.** This assessment of accuracy will occur after the live fire warm-up has been completed. The RCMP standardized silhouette targets will be scored at the end of the 4 stages. The RCMP will use its standardized silhouette targets that are used for RCMP Annual Firearms Qualifications and will score the targets with marksmanship scoring as illustrated below:



- c. Evaluators will be instructed to aim at the center CX consistent with their current training.
- d. Each evaluator will fire a total of 26 rounds resulting in a maximum score of 130 points per pistol for each evaluator.
- ii. This portion of the Usability Evaluation will not exceed thirty (30) minutes per offering.
- iii. The configured pistol will be fired with RCMP-approved ammunition.
- iv. A new target will be provided to the participants after the warm-up.
- v. If a user candidate mishandles a pistol (e.g., drops the pistol), an RCMP armourer will conduct a function check (as per the manufacturer's instructions), perform a visual inspection, test fire the pistol to confirm the pistol is in working order, and confirm the RDS' point of impact has not shifted more than 5.08 cm (2 inches). Should the pistol be found not to be in working order, it will be removed from the Usability Trial and it will be replaced with a new pistol of the same make and the evaluator will continue on with their evaluation.
- vi. The following stages will be performed by the evaluators as follows:

Stage	Instructions
<p>Warmup: Familiarization</p>	<p>This stage will not exceed a time limit of five (5) minutes and will be performed at seven (7) meters. Each evaluator will carry out the following tasks:</p> <ol style="list-style-type: none"> 1. Load two (2) magazines to 10 rounds each; 2. Step into their assigned shooting lane; 3. Ensure the RDS is turned off as per manufacturer's instructions; 4. On command from the Range Officer (RO), the evaluator will load and ready their pistol; 5. Assess the status of the pistol using the loaded chamber indicator; 6. Holster their pistol; 7. On command from the RO, the evaluator will fire their pistol until their magazine is empty using their iron sights; 8. Turn on the RDS as per the manufacturer's instructions; 9. Perform an open-action reload; 10. Assess the status of the pistol using the loaded chamber indicator; 11. Draw and fire their pistol until their magazine is empty using the RDS; 12. Remove the magazine; 13. Perform a physical and visual inspection of the firing chamber and magazine well; and 14. Holster their empty pistol.
<p>Stage 1</p>	<p>Objective: The evaluator will be shooting a six (6) round rhythm in a twenty (20) second time frame guideline while aiming for CX on the RCMP standardized silhouette target.</p> <p>This stage will be performed at seven (7) meters. Each evaluator will carry out the following tasks:</p> <ol style="list-style-type: none"> 1. Load one (1) magazine to 6 rounds; 2. Step into their assigned shooting lane; 3. Ensure the RDS is turned on as per the manufacturer's instructions; 4. On command from the RO, the evaluator will load and ready their pistol; 5. Assess the status of the pistol using the loaded chamber indicator;

	<ol style="list-style-type: none"> 6. Holster their pistol; 7. On command from the RO, the evaluator will have twenty (20) seconds to draw and fire their pistol until their magazine is empty using the RDS; 8. Remove the magazine; 9. Perform a physical and visual inspection of the firing chamber and magazine well; and 10. Holster their empty pistol.
Stage 2	<p>Objective: The evaluator will be shooting four (4) rounds at ten meters. The evaluator will conduct a reload manipulation after two (2) rounds in a twenty (20) second timeframe guideline.</p> <p>This stage will be performed at ten (10) meters. Each evaluator will carry out the following tasks:</p> <ol style="list-style-type: none"> 1. Load two (2) magazines to two (2) rounds each; 2. Place the second magazine in an accessible position on their person; 3. Step into their assigned shooting lane; 4. Ensure the RDS is turned on as per the manufacturer's instructions; 5. On command from the RO, the evaluator will load and ready their pistol; 6. Assess the status of the pistol using the loaded chamber indicator; 7. Holster their pistol; 8. On command from the RO, the evaluator will have twenty (20) seconds to: <ol style="list-style-type: none"> a. Draw and fire their pistol until their magazine is empty using the RDS; b. Perform an open-action reload; c. Fire their pistol until their magazine is empty using the RDS; 9. Remove the magazine; 10. Perform a physical and visual inspection of the firing chamber and magazine well; and 11. Holster their empty pistol.
Stage 3	<p>Objective: The evaluator will be shooting eight (8) rounds fired at fifteen (15) meters. The evaluator will perform a stoppage clearance manipulation in a twenty (20) second timeframe guideline.</p> <p>This stage will be performed at fifteen (15) meters. Each evaluator will carry out the following tasks:</p> <ol style="list-style-type: none"> 1. Load one (1) magazine with ammunition in the following order: <ol style="list-style-type: none"> a. Load two (2) live rounds; b. Load one (1) inert round; and c. Load six (6) live rounds.

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| | <ol style="list-style-type: none">2. Step into their assigned shooting lane;3. Ensure the RDS is turned on as per the manufacturer's instructions;4. On command from RO, the evaluator will load and ready their pistol;5. Assess the status of the pistol using the loaded chamber indicator; and6. Holster their pistol;7. On command from the RO, the evaluator will have two (2) minutes to:<ol style="list-style-type: none">a. Draw and pull the trigger five (5) times using the RDS from a standing position;b. When the evaluator experiences a stoppage (closed action), they will be required to clear the stoppage before completing the rest of the stage;c. Drop to a kneeling position; andd. Pull the trigger four (4) times using the RDS;8. Remove the magazine;9. Perform a physical and visual inspection of the firing chamber and magazine well; and10. Holster their empty pistol. |
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Stage 4

Objective: The evaluator will be shooting eight (8) rounds fired at ten (10) meters. The evaluator will use the iron sights, the RDS, and weapon light in low light conditions.

This stage will be performed at ten (10) meters in a low light condition. Each evaluator will carry out the following tasks:

1. Load two (2) magazines to four (4) rounds each;
2. Step into their assigned shooting lane;
3. Ensure the RDS is turned off as per the manufacturer's instructions;
4. Ensure the weapon light is turned off as per the manufacturer's instructions;
5. On command from the RO, the evaluator will load and ready their pistol;
6. Assess the status of the pistol using the loaded chamber indicator; and
7. Holster their pistol;

8. On command from the RO, the evaluator will have five (5) minutes to complete the following:
 - a. Draw and fire two (2) rounds with iron sights;
 - b. Turn on the weapon light to constant on as per the manufacturer's instructions;
 - c. Fire two (2) rounds with iron sights and weapon light;
 - d. Turn off the weapon light as per the manufacturer's instructions;
 - e. Turn on the RDS and adjust for ambient light conditions as per the manufacturer's instructions;
 - f. Perform an open-action reload;
 - g. Fire two (2) rounds with the RDS;
 - h. Turn on the weapon light to constant on as per the manufacturer's instructions; and
 - i. Fire two (2) rounds with the RDS and weapon light.

9. Remove the magazine;
10. Perform a physical and visual inspection of the firing chamber and magazine well;
11. Holster their empty pistol; and
12. Evaluate the accuracy of the four (4) stages.

ANNEX G: USABILITY EVALUATION GRIDS

Scale Rating	Definition	Score
Does not Meet	Unusable for the described task, or unable to complete the described task.	0 points
Met with Difficulty	Although the described task was able to be performed, there was a need for a total of 2 or more corrections or attempts to complete the described task	1 point
Met	The described task was able to be performed, but there was a need for 1 adjustment/correction to complete the described task.	3 points
Met Without any Difficulty	Performed the described task without the need for any clarifications, additional attempts complications, or assistance.	5 points

Classroom Table Top Component:

Using the scale provided, please evaluate the pistol in each category:

Safety Check 1 - Overhand Grip					
#	Indicator	Does not Meet	Met with Difficulty	Met	Met Without any Difficulty
1	I was able to lock-back the slide of the pistol using an overhand grip.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	I was able to release the slide of the pistol using an overhand grip.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	I was able to cycle the action of the pistol using an overhand grip.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Safety Check 2 - Optic Housing					
#	Indicator	Does not meet	Met with Difficulty	Met	Met Without any Difficulty
4	I was able to lock-back the slide of the pistol using the optic housing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	I was able to release the slide of the pistol using the optic housing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	I was able to cycle the action of the pistol using the optic housing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Safety Check 3 - Slingshot					
#	Indicator	Does not Meet	Met with Difficulty	Met	Met Without any Difficulty
7	I was able to lock-back the slide of the pistol using a slingshot grip.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	I was able to release the slide of the pistol using a slingshot grip.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	I was able to cycle the action of the pistol using a slingshot grip.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Basic Manipulation 1 - Overhand Grip:					
#	Indicator	Does not Meet	Met with Difficulty	Met	Met Without any Difficulty
No gloves					
10	I was able to lock-back the slide of the pistol using an overhand grip.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	I was able to release the slide of the pistol using an overhand grip.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12	I was able to cycle the action of the pistol using an overhand grip.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13	I was able to release the magazine of the pistol.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	I was able to insert the magazine into the pistol.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RCMP standard issue slash gloves					
15	I was able to lock-back the slide of the pistol using an overhand grip wearing RCMP standard issue slash gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	I was able to release the slide of the pistol using an overhand grip wearing RCMP standard issue slash gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

17	I was able to cycle the action of the pistol using an overhand grip wearing RCMP standard issue slash gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
18	I was able to release the magazine of the pistol wearing RCMP standard issue slash gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
19	I was able to insert the magazine into the pistol wearing RCMP standard issue slash gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Basic Manipulation 2 – Optic Housing:					
#	Indicator	Does not Meet	Met with Difficulty	Met	Met Without any Difficulty
No gloves					
20	I was able to lock-back the slide of the pistol using the optic housing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
21	I was able to release the slide of the pistol using the optic housing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22	I was able to cycle the action of the pistol using the optic housing.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23	I was able to release the magazine of the pistol.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24	I was able to insert the magazine into the pistol.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RCMP standard issue slash gloves					
25	I was able to lock-back the slide of the pistol using the optic housing wearing RCMP standard issue slash gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
26	I was able to release the slide of the pistol using the optic housing wearing RCMP standard issue slash gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27	I was able to cycle the action of the pistol using the optic housing wearing RCMP standard issue slash gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
28	I was able to release the magazine of the pistol wearing RCMP standard issue slash gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29	I was able to insert the magazine into the pistol wearing RCMP standard issue slash gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Basic Manipulation 3 - Slingshot					
#	Indicator	Does not Meet	Met with Difficulty	Met	Met Without any Difficulty
30	I was able to release the magazine of the pistol.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31	I was able to insert the magazine into the pistol.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32	The texture on the non-slip grasping grooves allowed me to complete a slingshot manipulation.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Basic Manipulation 4 - General Duty Holster					
#	Indicator	Does not Meet	Met with Difficulty	Met	Met Without any Difficulty
No gloves					
33	I was able to draw the pistol from the holster.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34	I was able to holster the pistol.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35	I was able to perform a support hand draw.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36	The holster did not snag on my uniform, cause drag on my belt, or move around from side to side when worn	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RCMP standard issue slash gloves					
37	I was able to draw the pistol from the holster using RCMP standard issue slash gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
38	I was able to holster the pistol using RCMP standard issue slash gloves.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Field Strip and Assembly					
#	Indicator	Does not Meet	Met with Difficulty	Met	Met Without any Difficulty
39	I was able to field strip the pistol.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40	I was able to reassemble the pistol.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Live Fire Component:

Scale Rating	Definition	Score
Does not Meet	Unusable for the described task, or unable to complete the described task.	0 points
Met with Difficulty	Although the described task was able to be performed, there was a total of two (2) or more instances/occurrences/corrections of the following challenges: <ul style="list-style-type: none">• Grip change;• Slippage;• Refocus;• Adjustment;• Discomfort; or• Movement.	1 point
Met	Although the described task was able to be performed, there was a total of one (1) instances/occurrences/corrections of the following challenges: <ul style="list-style-type: none">• Grip change;• Slippage;• Refocus;• Adjustment;• Discomfort; or• Movement. Or; able to accomplish on a single attempt with <u>additional use of the support hand.</u>	3 points
Met Without any Difficulty	Performed the described task without any of the above-mentioned challenges, Or; able to accomplish the task on a single attempt with the <u>use of strong hand only.</u>	5 points

Using the scale provided, please evaluate the pistol in each category:

Manipulation					
	Indicator	Does not Meet	Met with Difficulty	Met	Met without any Difficulty
Grip					
1	During the live fire, the texture on the pistol grip minimized the amount of movement (e.g., stippling, slippage) while shooting and handling the pistol.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	I found the grip ergonomics allowed me to access features (i.e., my fingers were able to reach all functions from my holding position).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	The grip did not cause discomfort, the need to readjust my hand position during stationary periods, or slippage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pistol Controls					
4	I found the location of slide release accessible without adjusting my grip.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	I found the location of magazine release(s) accessible without adjusting my grip.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Iron Sights					
6	I was able to acquire a sight picture with the front iron sight.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	I was able to reacquire a sight picture with the front iron sight.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Red Dot Sight					
8	I was able to acquire a sight picture with the RDS.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	I was able to reacquire a sight picture with the RDS on subsequent	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

	rounds.				
10	I was able to operate the RDS controls (e.g., on/off, intensity adjustment).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Weapon Light					
11	I was able to operate the weapon light controls without adjusting my grip (e.g., momentary and constant on).	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Slide					
12	I was able to cycle the action/slide.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Trigger					
13	I found the trigger distance accessible without adjusting my grip.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	I found the trigger pull consistent through usage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Performance					
15	The level of recoil did not cause pain, discomfort, or loss of grip.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
16	I was able to clear pistol stoppages.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Evaluator Accuracy	
Total Score	/130