

Auto Body and Collision Technician Tradesperson Practical Examination Information

This information is current as of January 15, 2025

There is a written and a practical component to the Journeyperson examination. With the exception of apprentices attending the final level of technical training, the written examination must be completed successfully before applying for the practical examination.

VISIT OUR WEB SITE!

www.saskapprenticeship.ca

Verbal abuse by candidates towards any person at the examination facility will not be tolerated. Instances of this abuse will result in the immediate termination of the candidate's examination attempt at the expense of the candidate.

All communication and/or imaging devices are prohibited from use at all times during the practical examination.

Please note that examinations and study information change frequently. The most recent information is available on our website at www.saskapprenticeship.ca.

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apprenticeship@gov.sk.ca
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Candidate Instructions (To Be Read To Candidates)

Practical examination pass mark: **70%**
Maximum time allowed for the examination: **Part A (50%): 1.5 hours**
Part B (50%): 4 hours

Please place this examination information package in an area where it will not become soiled or burned from welding sparks during the examination.

This is a **two part examination**:

- Once **Part A** has been completed all candidates are to **stop**.
- **Do not proceed to Part B** until the examination invigilator has given permission to continue.

Caution: Candidates are expected to provide suitable protective clothing for the examination such as safety glasses, face shield, welding helmet, welding gloves, and safety shoes.

Direct all questions to the examination marker.

Talking between candidates will not be allowed during the examination.

The examination may be terminated at any stage of the procedure, resulting in automatic failure, whenever it becomes apparent to the examination marker that the candidate:

1. has shown behaviour or a lack of competency which may result in physical injury or mechanical damage;
2. is not following the procedures as outlined in this instruction package.

Only **one set** of coupons and simulated sectioning project pieces will be provided. Use only the materials provided.

Flaws or defects in the materials will be considered by the markers and will not detract from the final mark.

Practice material will be provided to set the welding machine.

When you have completed the examination:

1. Make sure that your projects are properly cleaned. Only grind welds where **permitted**.
2. Shut down any equipment and return any tools or equipment used to their proper place.
3. Hand in your projects to the SATCC examination invigilator.
4. Clean up your work area.
5. Leave the examination area.

Examination results will be entered in your profile in MyATC within four weeks.

Part A: GMAW Welding (50% of the examination)

AUTO BODY AND COLLISION TECHNICIAN

Practical Examination 01/P/24

Part A: Time allowed: 1.5 hour for Part A: GMAW Welding

Material Provided For Examination:

- 2 - 2 in. x 8 in. - 20 Ga. coupons
- 1 - 2 in. x 8 in. - 20 Ga. coupons with 8 mm (5/16 in.) holes
- 3 - 2 in. x 8 in. - 20 Ga. coupons with 13 mm (1/2 in.) flange
- 2 - 2 in. x 8 in. - 22 Ga. coupons

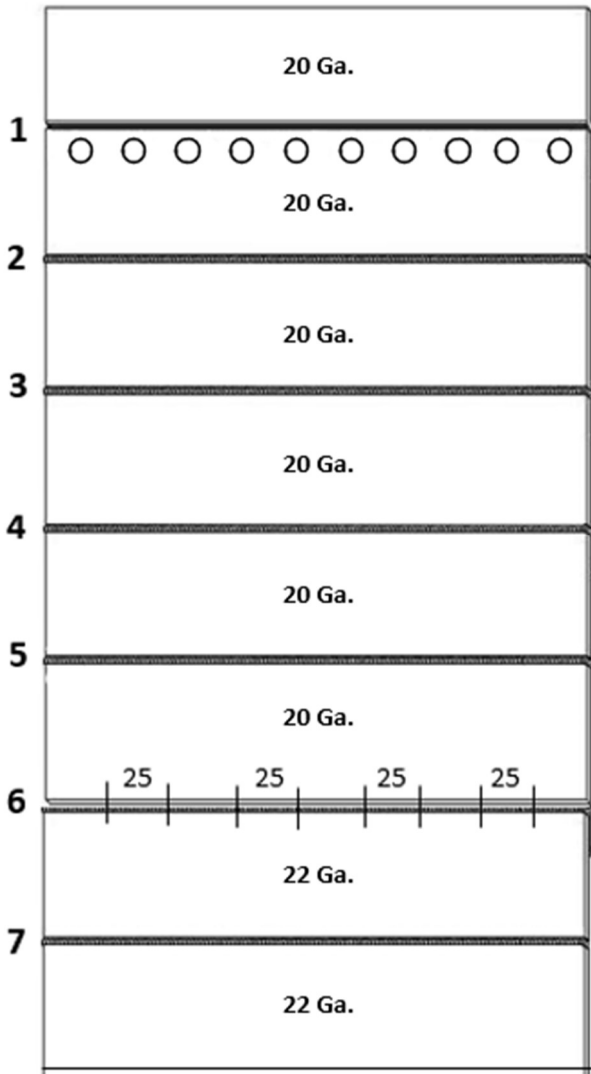
Material Provided For Destructive Tests:

- 4 - 2 in. x 8 in. - 20 Ga. coupons
- 1 - 2 in. x 8 in. - 22 Ga. coupons

Welding Specifications:

- All welds .023 wire.
- 87.5% of the weld must have penetration to be viewed sufficient.
- There can only be one - 1/8 in. imperfection per 1 in. of weld, the coupons are 8 in. in length. This means the maximum imperfections per length weld can be 8, or 1 inch in total lack of penetration over the length of the weld.
- Completed destructive test welds are to be handed in prior to starting the next weld type
- Staggard lap weld 4 – 25mm spaced evenly across the coupon

Candidates Please Note: All components must be welded in the **order** shown. Failure to do so will result in a deduction of 15 marks. All components must be welded in the **position** shown. Failure to do so will result in automatic failure of this examination.



PLUG WELD: Position – horizontal

BUTT WELD: Position - vertical

LAP WELD: Position – horizontal

LAP WELD: Position – overhead

BUTT WELD: Position – overhead

STAGGARD LAP WELD: Position – horizontal

BUTT WELD: Position - vertical

Part B: Sectioning (50% of the examination)

AUTO BODY AND COLLISION TECHNICIAN

Practical Examination 01/P/24

Time Allowed: 4 hours for Part B: Sectioning

You have been provided with a simulated vehicle component and replacement part. You are asked to section the simulated vehicle according to the instructions provided. To avoid confusion, one piece has been identified as the **Vehicle Component** and the other piece as the **Replacement Part**.

Material Provided:

1 - Simulated vehicle component

1 - Simulated replacement part

Candidates Please Note: All components must be welded in the **order** shown. Failure to do so will result in a loss of marks of areas that the examination markers cannot assess. All components must be welded in the **position** shown. Failure to do so will result in automatic failure of this examination.

Tools Supplied by Test Centre:

GMAW (MIG) Welder

Table c/w Vise

Drill

Hacksaw

Felt Marker

Scribe

Straight Edge

Weld-Through Primer

Disc Grinder

Fibre Wheel

Belt Grinder

Ventilated Welding Area

Tools Candidate Supplied (required):

Hammer and General Purpose Dolly

1/8 in., 1/4 in. and 5/16 in. Drill Bit

2 – C-clamp Vicegrips

2 – Regular Vicegrips

Spot Weld Removal Tools

Metric Tape Measure

Safety Glasses **and** Face Shield

Welding Helmet, Welding Gloves (Gauntlet Type)

Appropriate Footwear (Safety Shoes)

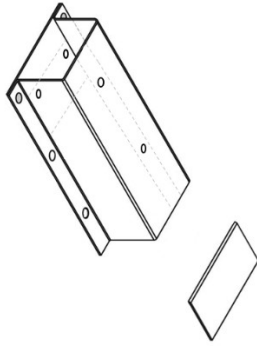
Candidate Supplied (optional):

Welding Respirator, 3/4 in. Masking Tape,

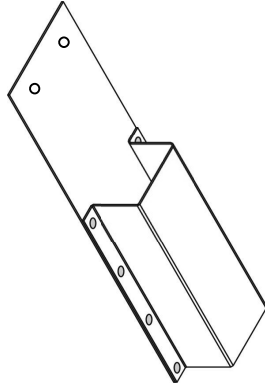
5/16 in. Hole Punch, Cut-off Wheel or

Reciprocating Saw

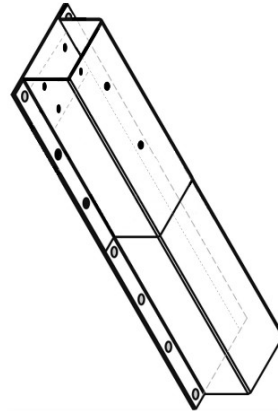
Note: Failure to produce the safety items may result in the examination being terminated.



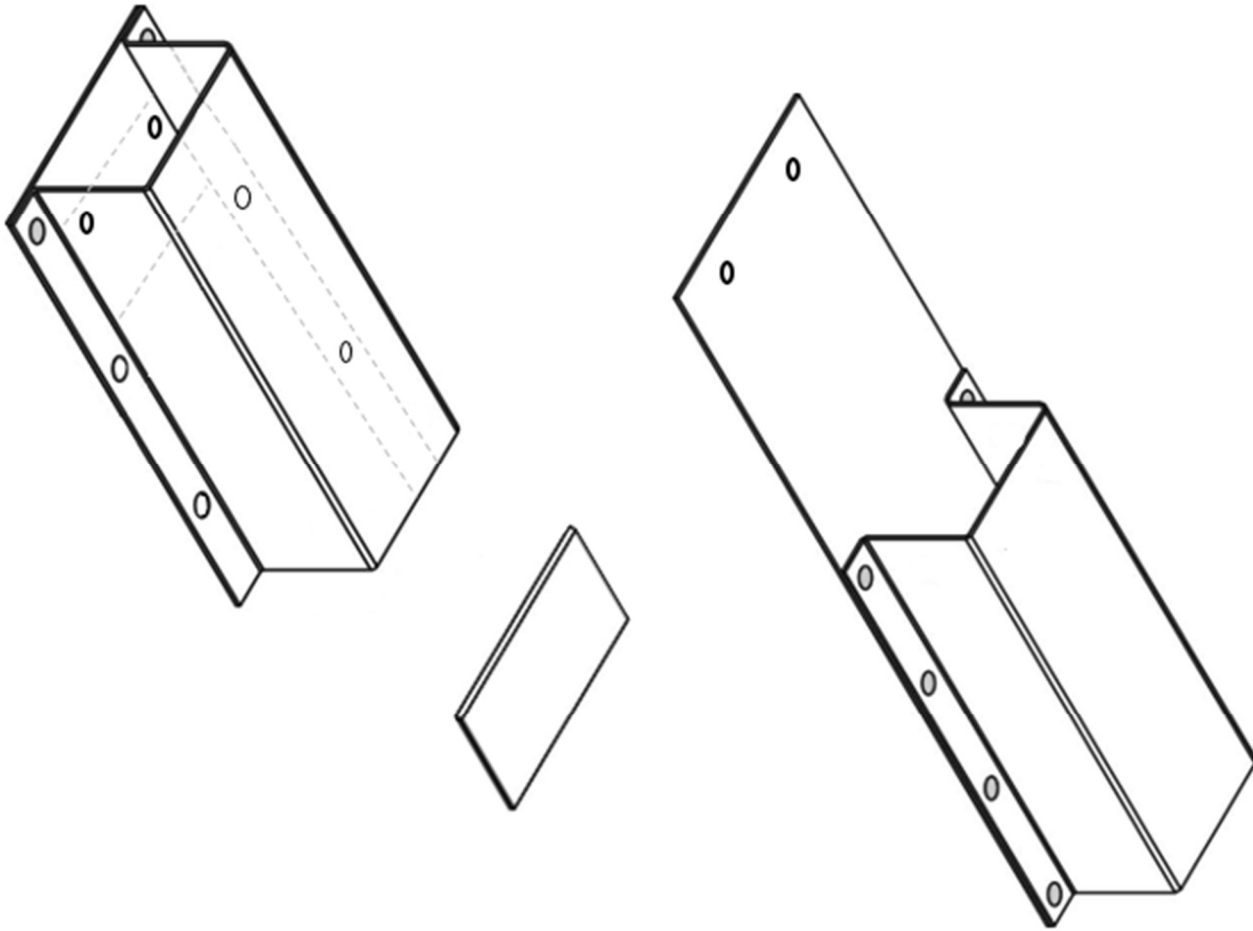
Prepared
Vehicle Component



Prepared
Replacement Part



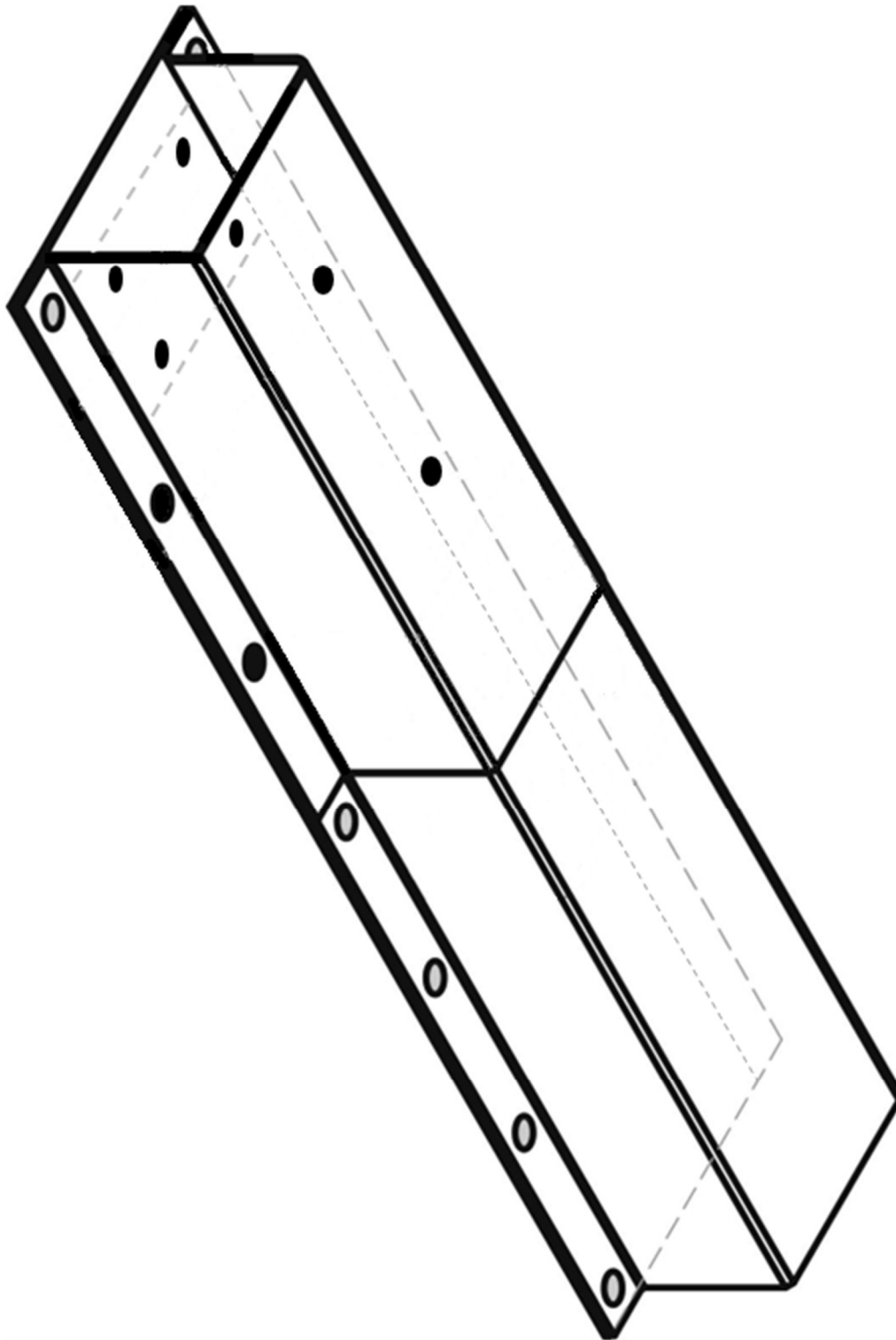
Completed
Sectioned
Component



Prepared Vehicle Component

Prepared Replacement Component

Note: The vehicle component the butt joint is to be offset from front panel cut by 153 mm.



Completed Sectioned Component

Note: The overall length of the sectioned panel must be the same as the original vehicle component (405 mm).

Part B: Sectioning (continued)

AUTO BODY AND COLLISON TECHNICIAN Practical Examination 01/P/24

Instructions:

- The vehicle component **must be in a horizontal position** when performing welding operations. Failure to do so will result in automatic failure of this examination.
- Join the vehicle component and the replacement part using a straight cut butt joint on the outer panel and a butt with insert joint on the inner panel.
- The overall length of the sectioned panel must be the same as the original vehicle component (405 mm).
- On the vehicle component the butt joint is to be offset from front panel cut by 153 mm.
- Weld-through primer must be used where necessary.
- Any spot welds that have been removed must be replaced with plug welds.
- All butt weld joints must be welded to achieve a continuous weld.
- Panels with damage through the inner panel will result in an automatic failure

Vehicle Component:

1. Cut the outer panel at the centre of the component.
2. Cut the inner panel to provide the required offset and drill 6 mm holes for backing plate attachment.
3. Remove the required spot welds to separate the pieces.
4. Use a piece of removed **scrap** inner panel to make an insert of 75mm x 40 mm in length.
5. **STOP** - Upon completion of these steps, notify the examiners for grading before proceeding to the next step. Cuts will be checked at this stage. ****Not stopping will result in a loss of marks in affected areas.**

Replacement Part:

1. Cut the outer panel at the centre of the component.
2. Cut the inner panel with the required amount of offset and drill 6 mm holes for backing plate attachment.
3. Remove the required spot welds to separate the pieces.
4. Drill evenly spaced 8 mm plug welds on mating flanges (2 per side).
5. **STOP** – Upon completion of these steps, notify the examiners for grading before proceeding to the next step. No work other than welding may be done to these pieces (no grinding). ****Not stopping will result in a loss of marks in affected areas.**

Assembled Component:

Note: All components must now be horizontally positioned and then have all the welds completed. Failure to do so will result in automatic failure of this examination.

1. Assemble component and perform plug welds.
2. **STOP** - Upon completion of these steps, notify the examiners for grading before proceeding to the next step. ****Not stopping will result in a loss of marks in affected areas.**
3. Perform section butt welds.
4. **STOP** - Upon completion of these steps, notify the examiners for grading before proceeding to the next step. ****Not stopping will result in a loss of marks in affected areas.**
5. Grind the outer panel butt weld.

This is the end of the examination. Please refer to page 2 for final instructions and leave the test centre as quickly and quietly as possible.

Score Sheet - Part A: GMAW Welding

CANDIDATE NUMBER			
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ALL SCORING SHEETS TO BE FILLED IN BY EXAMINATION MARKERS ONLY	HORIZONTAL PLUG 20 Ga.	VERTICAL BUTT 20 Ga.	HORIZONTAL LAP 20 Ga.	OVERHEAD LAP 20 Ga.	FLAT BUTT 20 Ga.	STAGGARD LAP 22 Ga.	VERTICAL BUTT 22 Ga.
DESTRUCTIVE TEST	0 or 10	0 or 10	0 or 10	0 or 10	0 or 10	0 or 10	0 or 10
PENETRATION -If 0 marks are awarded for penetration in any welded position, the entire score for weld size and uniformity (actual score) must equal 0 .	0 or 10	0 or 10	0 or 10	0 or 10	0 or 10	0 or 10	0 or 10
WELD SIZE	/10	/10	/10	/10	/10	/10	/10
UNIFORMITY	/10	/10	/10	/10	/10	/10	/10
POSSIBLE TOTAL	40	40	40	40	40	40	40
ACTUAL TOTAL							
DEDUCTIONS -If welds are performed out of sequence, deduct 15 marks from Subtotal (See below Part A #8 on Marker Sheet)							

Score Sheet - Part B: Sectioning

OVERALL LENGTH	405 mm (±3mm)	0 or 10	
STRAIGHTNESS OF SIDE	±2mm	0 or 5	
STRAIGHTNESS OF FACE	±2mm	0 or 5	
LENGTH OF OFFSET (on vehicle piece)	153 mm (±3mm)	0 or 10	
ROOT GAP	2-3 material thickness	0 or 5	
WELD DRESSING	No undercuts and voids	0 to 10	
BUTT WELD CENTERED	±3mm	0 or 5	
INSERT FITMENT	±2mm	0 or 5	
DIMENSIONS OF INSERT	75 mm x 40 mm ±2mm)	0 to 5	
CUT ACCURACY	No damaged flanges (Not cut through)	0 to 10	
APPLICATION OF WELD-THROUGH PRIMER	No/Yes	0 or 10	
6 MM PLUG WELD SIZE	8 - 10 mm completely filled	0 to 5	
8 MM PLUG WELD SIZE	10 - 13 mm completely filled	0 to 5	
OVERALL WELD QUALITY (porosity, appearance, penetration)	Visual inspection	0 to 10	
POSSIBLE TOTAL			100
ACTUAL TOTAL			

**AUTO BODY AND COLLISON TECHNICIAN
Practical Examination 01/P/24**

CANDIDATE NUMBER	
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TO BE FILLED IN BY EXAMINATION MARKER			
Part A	Description	Possible Score	Actual Score
1	Horizontal Plug 20 Ga.	40	
2	Vertical Butt 20 Ga.	40	
3	Horizontal Lap 20 Ga.	40	
4	Overhead Lap 20 Ga.	40	
5	Overhead Butt 20 Ga.	40	
6	Staggard Lap 22 Ga.	40	
7	Vertical Butt 22 Ga.	40	
8	Deductions (Possible 15 marks total)		
	SUB-TOTAL	280	
			x .357
	PART A TOTAL	100	
Part B	Description		+
1	Sectioning Project	100	
	PART B TOTAL	100	
	TOTAL OF PART A + PART B	200	
			x .5
		PASS	%
		FAIL	%
		PASS MARK 70%	
DATE:		LOCATION:	

Comments: _____

Examination Markers' Signature:

SATCC Apprenticeship Services Consultant's Signature:

FORM # 2019 052725
This information is subject to change without notice.

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