

Auto Body and Collision Technician Tradesperson Practical Examination Information

This information is current as of July 12, 2022

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.

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.

Candidate Instructions (To Be Read To Candidates)

Practical examination pass mark: **70%**
Equipment set-up time: **Maximum 1/2 hour**
Maximum time allowed for the examination: **Part A (66 2/3%): 1 hour**
Part B (33 1/3%): 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**.
- ***IMPORTANT: Two-thirds of the possible marks are contained in Part A.**
- **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.

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 B-Pillar 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. **No grinding of welds is 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 (66 2/3% of the examination)

AUTO BODY AND COLLISION TECHNICIAN

Practical Examination 01/P/13

Part A: Time allowed: 1 hour for Part A: GMAW Welding

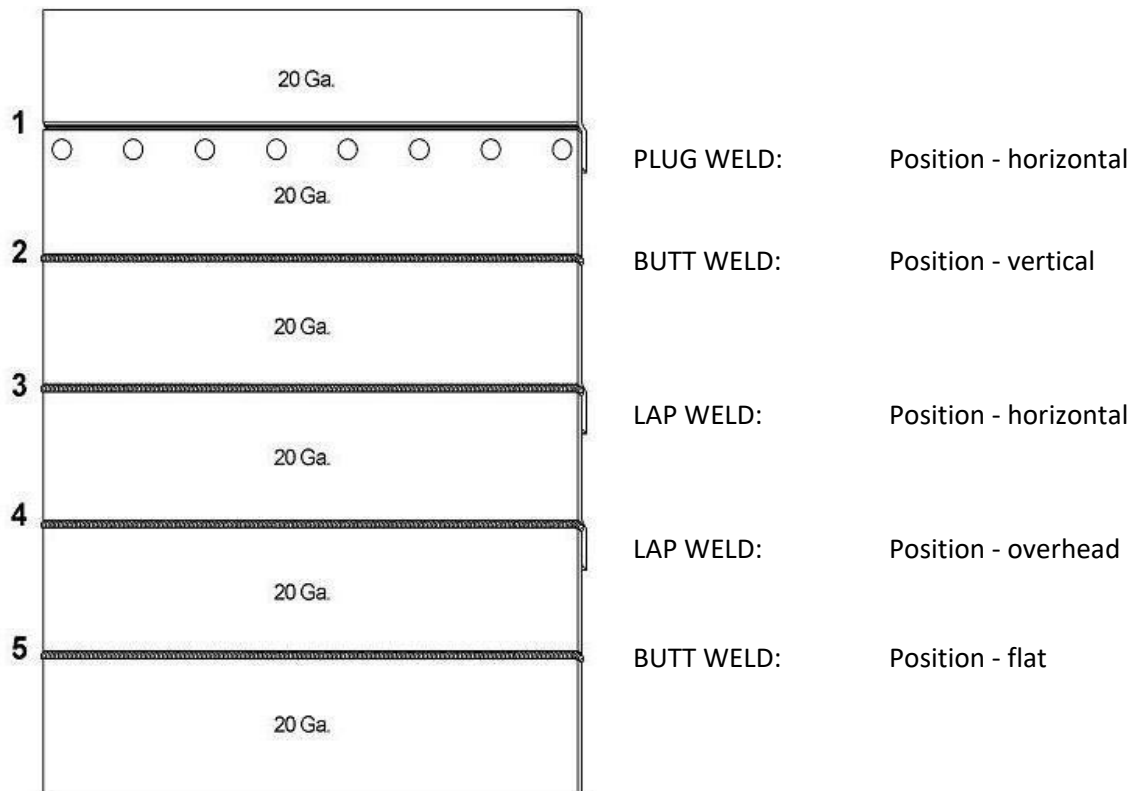
Material provided:

- 2 - 2" × 8" - 20 Ga. Coupon
- 1 - 2" × 8" - 20 Ga. coupons with 8 mm (5/16") holes
- 3 - 2" × 8" - 20 Ga. coupons with 13 mm (1/2") flange

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 inch imperfection per 1 inch of weld, the coupons are 8 inches 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.

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



Part B: Sectioning (33 1/3% of the examination)

AUTO BODY AND COLLISON TECHNICIAN

Practical Examination 01/P/13

Time Allowed: 4 hours for Part B: Sectioning

You have been provided with two (2) pieces of simulated B-pillar. You are asked to cut and section the B-pillars according to the instructions provided. To avoid confusion, one piece has been identified as the **Vehicle Component** and the other piece as the **Recycled Component**.

Material Provided:

- 1 - Simulated B-pillar (representing the **vehicle component**)
- 1 - Simulated B-pillar (representing the **recycled component**)

Candidates Please Note: All components must be welded in the **order and position** described. 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
#8 Hex Head Sheet Metal Screws
Fibre Wheel
Ventilated Welding Area

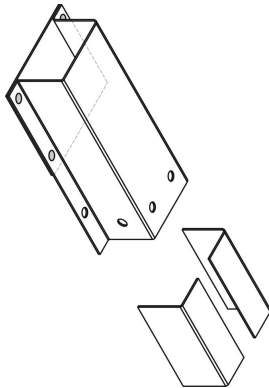
Tools Candidate Supplied (required):

Hammer and General Purpose Dolly
1/8" Drill Bit **and** 5/16" 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)
1/4" Nut Driver

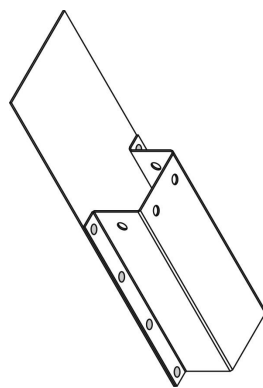
Candidate Supplied (optional):

Welding Respirator, 3/4" Masking Tape,
5/16" Hole Punch, Chill Bar, Cut-off Wheel or
Reciprocating Saw

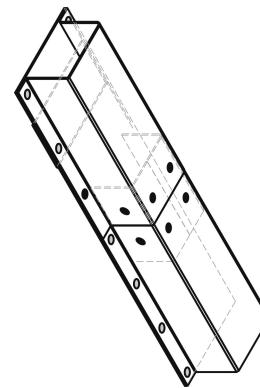
Note: Failure to produce the safety items may result in the examination being terminated.



Prepared
Vehicle Component

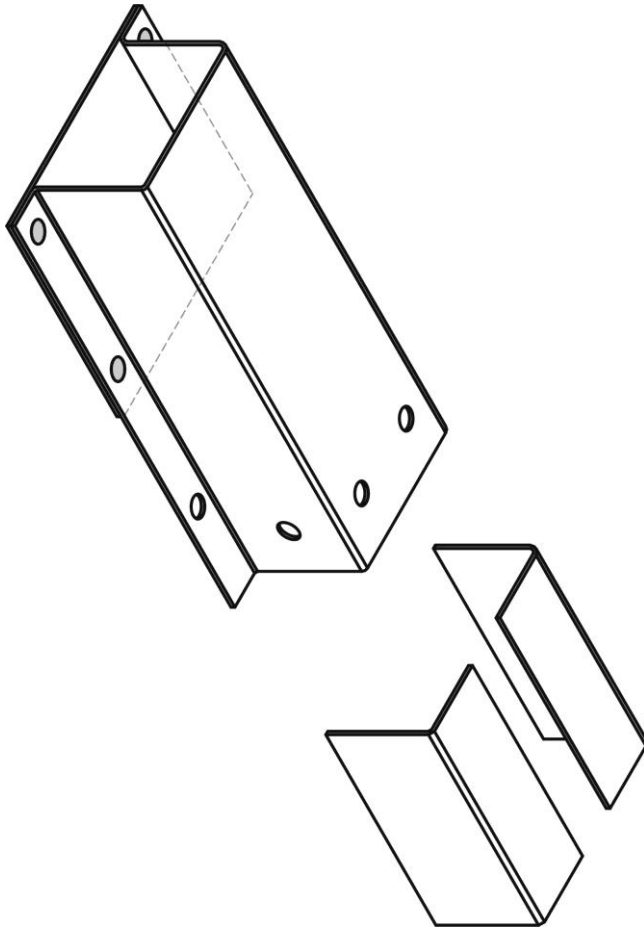


Prepared
Recycled Component

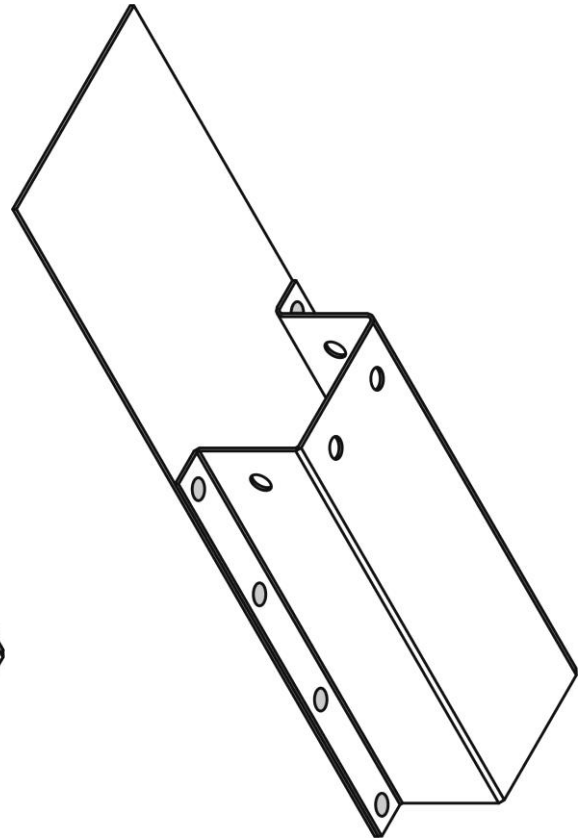


Completed
Sectioned Component

1-877-363-0536
apprenticeship@gov.sk.ca
saskapprenticeship.ca

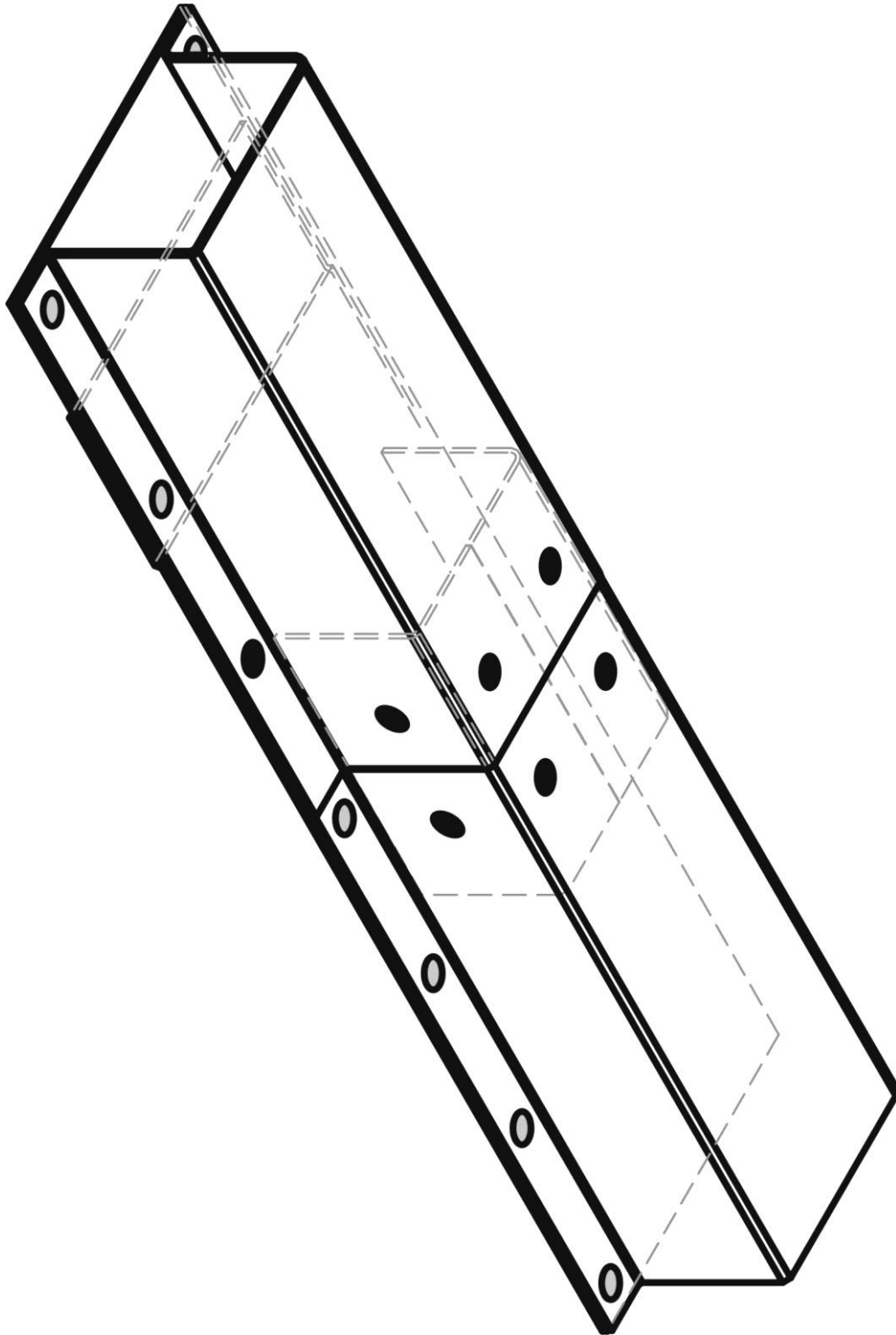


**Prepared Vehicle
Component**



**Prepared Recycled
Component**

<p>Note: The vehicle component the lap joint is to be offset from front panel cut by 102 mm.</p>	<p>Note: The recycled component the overlap of the offset is an additional 51 mm.</p>
---	--



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/13

Instructions:

- The vehicle component **must be in a vertical position** when performing welding operations. Failure to do so will result in automatic failure of this examination.
- Join the vehicle component and the recycled component using a straight cut butt joint with an insert on the outer panel and an offset lap 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 lap joint is to be offset from front panel cut by 102 mm.
- On the recycled component the overlap of the offset is an additional 51 mm.
- Weld-through primer must be used where necessary.
- Any weld spots that have been removed must be replaced with plug welds.
- All lap and butt weld joints must be welded to achieve a continuous weld.

Vehicle Component:

1. Cut the outer panel at the centre of the component.
2. Cut the inner panel to provide the required offset.
3. Drill out the required spot welds to separate the pieces.
4. Use a piece of removed **scrap** outer panel to fashion an insert of 102 mm in length. (**Tack, do not weld** the insert pieces together. No work other than tack welding may be done to these pieces (no grinding).)
5. **STOP** - Upon completion of these steps, notify the examiners for grading before proceeding to the next step.

Recycled Component:

1. Cut the outer panel at the centre of the component.
2. Cut the inner panel with the required amount of offset to overlap the vehicle component.
3. Drill out the required spot welds to separate the pieces.
4. **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).

Assembled Component:

Note: All components must now be vertically positioned and then have all the welds completed.

Failure to do so will result in automatic failure of this examination.

1. Centre the insert into the vehicle component and plug weld into position. Use one (1) plug weld on each side and two (2) on the face of the section.
2. Assemble the components. The overlap on the **recycled** component must be lapped onto the inner panel of the vehicle component.
3. Plug weld the recycled component to the insert.
4. Weld together using industry acceptable GMAW (MIG) methods.

Note: No exterior welds are to be dressed.

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	
------------------	--

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.
PENETRATION -If 0 marks are awarded for penetration in any welded position, the entire score for that column (actual score) must equal 0 .	0 or 10	0 or 10	0 or 10	0 or 10	0 or 10
WELD SIZE	/10	/10	/10	/10	/10
UNIFORMITY	/10	/10	/10	/10	/10
LACK OF WARPAGE ALONG THE WELDS	/10	/10	/10	/10	/10
POSSIBLE TOTAL	40	40	40	40	40
ACTUAL TOTAL					

Score Sheet - Part B: Sectioning

OVERALL LENGTH	405 mm (±2mm)	0 or 5	
STRAIGHTNESS OF SIDE	±2mm	0 or 5	
STRAIGHTNESS OF FACE	±2mm	0 or 5	
LENGTH OF OFFSET (on vehicle piece)	102 mm (±3mm)	0 or 10	
LENGTH OF OVERLAP	51 mm (±3mm)	0 or 5	
POSITION OF OVERLAP	51 mm (±3mm)	0 or 5	
BUTT WELD CENTERED	±3mm	0 or 5	
INSERT CENTERED	±3mm	0 or 5	
LENGTH OF INSERT	102 mm (±2mm)	0 or 10	
FIT OF INSERT (to inner panel)	Within 2mm of inside surfaces	0 or 10	
APPLICATION OF WELD-THROUGH PRIMER	No/Yes	0 or 10	
PLUG WELD SIZE	10 - 13 mm in diameter & completely filled	0 to 10	
NUMBER OF PLUG WELDS ONTO INSERT (Vehicle & Recycled Component)	(2) two on each side, (4) four on the top	0 or 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/13**

CANDIDATE NUMBER	
------------------	--

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	Flat Butt 20 Ga.	40	
SUB-TOTAL		200	
			× .5
PART A TOTAL		100	
Part B	Description		+
1	B-Pillar Sectioning	100	
PART B TOTAL		100	
TOTAL OF PART A + PART B		200	
			× .5
		PASS	%
		FAIL	%
		PASS MARK 70%	
DATE:		LOCATION:	

Comments: _____

Examination Markers' Signature:

SATCC Field Consultant's Signature:

FORM # 2013 071222
This information is subject to change without notice.