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SkillAuto Selection – Auto Body Repair
Task B – MIG Welding

<u>Competitor Instruction Sheet</u>

You have **30 minutes** to complete this task

1. **Check and set up the welding equipment for the weld type. Including gun tip, nozzle shield, power settings, wire type, speed, gas type and flow.**
2. **Prepare sheet metal provided.**
3. **Carry out a test weld and assess for strength and defects**
4. **Complete a horizontal butt weld**
5. **Carry out a quality check on the finished weld**
6. **Shut down welding equipment on completion of task**

Note: Provided for you are 6 coupons to complete 2 weld test pieces and 1 setup/practice piece. You should select which test piece to submit for marking.

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Marking Scheme

Competitor:	
Competition element: **MIG Weld – Horizontal**	**Pre Selection AutoBody**
Date:	
Venue:	

Use this form for all objective marking.

Start Time: **Finish Time:** **Max Time Allowed. 30 Minutes**

Aspect ID	Marking Criteria or Description	Requirement	Max Mark	Mark Awarded
1.1	Safe working practices adhered to throughout task		1	
1.2	Appropriate PPE used		1	
Horizontal Butt weld set up				
1.3	Gas pressure is turned on and adjusted		1	
1.4	Gas pressure is set correctly to allow for change in position, to allow for drop off in gas	Max 20l/min	1	
1.5	Test weld is completed to establish machine settings		1	
1.6	Amperage is set/reset according to results of test weld.	Decrease in amperage	1	
Horizontal Butt weld –test piece				
1.7	Weld joint is cleaned before welding		1	
1.8	Suitable gap is left to aid grab through	½ to 1 X metal thickness	1	
1.9	Weld joint is tacked prior to welding (at least FOUR, evenly spaced tacks and lightly sanded)	Grab through visible at each tack. 1 mark each	4	
2.1	Samples are set up in the correct orientation	Horizontal/Butt	1	
2.2	Finished weld is continuous. Competitor is allowed a max of 3 start and stops.	No gaps when held up to light	2	
2.3	Weld bead cap height not more than 3 x metal thickness.		1	

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Continued overleaf

2.4	Grab through to root. 2 marks if present for at least 75%% of weld (continuous) 1 mark for 50%	See judges guidance	3	
2.5	Weld remains together when a DT cup test is carried out.	See judges guidance	3	
2.6	Complete task in time allocated		2	
		Total Marks	**24**	

Signatures of markers to confirm the accuracy of these results. Please sign and print name.

Marker 1		**Moderator**
Marker 2		

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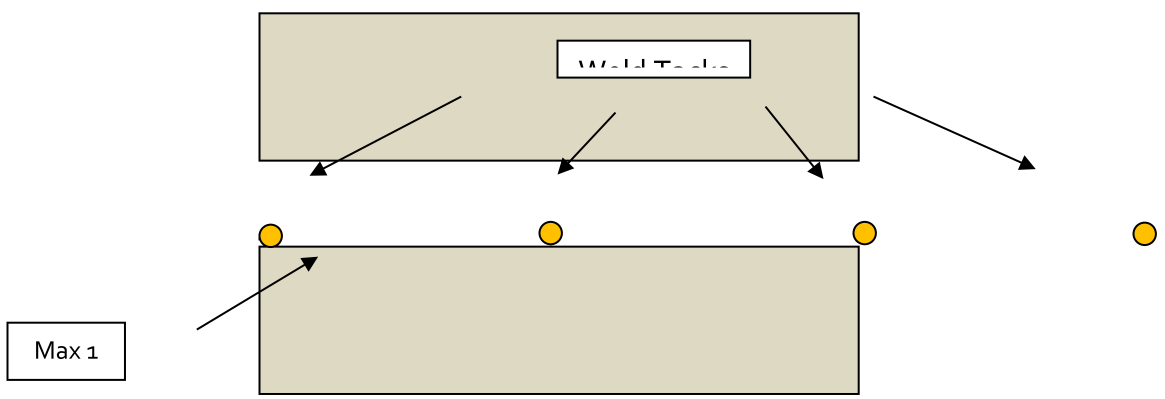
Judges Advice Sheet

- One reminder to use PPE is permitted before deducting marks
- One warning regarding safe practices permitted before deducting marks
- Horizontal butt weld
    - Gas pressure set to max 20 litres per min
    - A gap of ½ to 1 times metal thickness is left to aid grab
    - At least 4 evenly spaced, lightly sanded tack welds prior to welding *(see drawing)*
    - No gaps in continuous weld bead.
    - Maximum of 3 start/stops.
    - Weld bead no more than 3 X metal thickness e.g. 3mm
    - Grab through to root of weld present for 75% - award 2 marks. 50% - award 1 mark. Less than 50% - award no marks.
    - Weld must remain together when DT cup test carried out



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Host Centre Brief:

Competitors should be provided with 6 uncoated mild steel coupons measuring 200 X 75mm of 1 mm thickness.
The welding plant should be in a shut down condition with amperage settings above specification requiring the competitor to *decrease* the amperage for the butt weld.

Infrastucture List:

Item Description	Number per competitor
MIG welder and accessories (Gas, wire, etc)	1
Welding screens	2
Fume Extraction	1
Welding bench c/w vice	1
Uncoated mild steel sheets 200mm X 75mm X 1mm	6
Finishing sander	1
Horizontal set up jig/welding frame	1
General hand tools	selection

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SkillAuto Selection – Auto Body Repair
Task A - Repair Damaged Panel

Competitor Instruction Sheet

You have **30 Minutes** to complete this task

1. Use the body file to identify the extent of the damage pointed out to you. You should remove only enough material to identify damage.

2. Use the correct dolly from those supplied and a bumping file or the correct hammer to repair the damage.

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SkillAuto Selection – Auto Body Repair
Task A - Repair Damaged Panel

Marking Schemes

Competitor:	
Competition element: **A – Repair Damaged Panel**	**Pre Selection AutoBody**
Date:	
Venue:	

Use this form for all objective marking.

Start Time: **Finish Time:** **Max Time Allowed. 30 minutes**

Aspect ID	Marking Criteria or Description	Requirement	Max Mark	Mark Awarded
1.1.	Safe working practices adhered to throughout task		1	
1.2	Appropriate PPE used		1	
1.3	Correct body file is chosen		2	
1.4	Body file is adjusted to appropriate profile		1	
1.5	Body file is used in a 'controlled' manner	Proper control of the tool	1	
1.6	Damage is clearly identified		2	
1.7	A suitable amount of material is removed to identify damage		1	
1.8	Correct repair tool / dolly is chosen	1 mark per tool	2	
1.9	Damage is removed and contour regained		4	
2.1	Repair area is left in a finished condition	No deep scratches	1	
2.2	Task completed in time allowed		2	
		Total Marks	**18**	

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SkillAuto Selection – Auto Body Repair
Task A - Repair Damaged Panel

Judges Advice Sheet

One reminder about wearing PPE allowed before deducting mark

The best competitors will not only repair the damage but also use the body file correctly to leave as clean a finish as possible.

Host Centre Brief:

Centres should supply a painted panel into which they should place a SMALL dent or 'ding' type of damage as might be found in a new panel delivered to the workshop. A slow crowned panel would be best.

The panel should be mounted on a panel stand (in its normal position) and secured with cable ties or clamps. Competitors should be encouraged to repair the panel in this position

The appropriate tools should be laid out but this tool display should also include tools that are incorrect for the repair being tackled, e.g. engineers file as well as a body file, a convex body file if available, as well as an adjustable file, a hammer that would be totally unsuitable as well as the correct type .

Infrastructure List:

Item Description	Number per competitor
Panel –with damaged area introduced	1
Panel stand	1
Clamps or cable ties	1
Body File	1
Selection of dollies to include one suitable for contour of panel	selection
Planishing Hammer	1
Pick Hammer	1
Engineers Hammer (distractor)	1
Engineers file (distractor)	1
Adjustable file (distractor)	1
PPE	

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SkillAuto Selection – Auto Body Repair
Task C – Panel replacement

Competitor Instruction Sheet

You have **1.30 hr** to complete this task

On the vehicle supplied, Remove and Replace a front wing so that it is the correctly positioned.

The judge will provide details of the gap settings to be achieved.

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SkillAuto Selection – Auto Body Repair
Task C – Panel replacement

Marking Schemes

Competitor:

Competition element: **Replace Panel**	**Pre Selection AutoBody**
Date:	
Venue:	

Use this form for all objective marking.

Start Time: **Finish Time:** **Max Time Allowed. 30 minutes**

Aspect ID	Marking Criteria or Description	Requirement	Max Mark	Mark Awarded
1.1.	Safe working practices adhered to throughout task		0.5	
1.2	Appropriate PPE used		0.5	
1.3	Candidate referred to TDS for correct method		2	
1.4	All MET removed and stored correctly		2	
1.5	Appropriate adjustment tools selected		1	
1.6	Wing is adjusted in the correct manner		2	
1.7	Gap between wing –bonnet/wing -door is correct And within tolerance		3	
1.8	Candidate used torque wrench to correct values as per methods		3	
1.9	Vehicle is left in a clean condition and panels are undamaged		1	
2.1	Task is completed within the time		1	
		Total Marks	**16**	

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Marker 1		**Moderator**
Marker 2		

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SkillAuto Selection – Auto Body Repair
Task C – Panel Adjustment

<u>Judges Advice Sheet</u>

One reminder about wearing PPE allowed before deducting mark

Specify gap to the competitor

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SkillAuto Selection – Auto Body Repair
Task C – Panel Adjustment

Host Centre Brief:

Centres should supply a suitable vehicle where the candidate can remove and replace a front wing.

Before the competitor begins the task the wing marks should be removed (no obvious signs left where the wing should sit use a grinder/sander to remove these marks). Suitable measuring equipment should be made available such as gap gauges, allen keys or digital internal micrometer along with the tools and equipment required to adjust these panels.

Data on the gap setting should be available. This can be centre created to suit the vehicle or from manufacturers specifications.

Infrastructure List:

Item Description	Number per competitor
Vehicle with adjustable wing and bonnet fixings	1
Appropriate tools to carry out adjustments (sockets, spanners)	1
Gap gauges (or suitable measuring device e.g allen keys)	1

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SkillAuto Selection – Auto Body Repair
Task D – Spot Welding

Competitor Instruction Sheet

You have **30 minutes** to complete this task

Check and set up the resistance spot welding equipment and produce two test nuggets for assessment.

One coupon should be pulled and one coupon should show the weld but not be pulled

Note: Provided for you are 10 coupons to complete the weld practice and set up test pieces. You should select which two test piece to submit for marking.

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SkillAuto Selection – Auto Body Repair
Task D – Spot Welding

Marking Schemes

Competitor:

Competition element: **Spot Welding**	**Pre Selection AutoBody**
Date:	
Venue:	

Use this form for all objective marking.

Start Time: **Finish Time:** **Max Time Allowed. 30 Minutes**

Aspect ID	Marking Criteria or Description	Requirement	Max Mark	Mark Awarded
1.1	Safe working practices adhered to throughout task		1	
1.2	Appropriate PPE used		1	
	Weld set up			
1.3	Checks welding tips for condition	Visual check	1	
1.4	Makes any necessary adjustments to tips		1	
1.5	Sets up machine to produce first weld coupon		2	
1.6	Removes paint from samples before welding		1	
1.7	Applies weld through primer to test coupons prior to welding		1	
	Weld –test piece			
1.8	Pulls first coupon and makes any adjustments to machine based upon the results	Further two tests are allowed	2	
1.9	Produces single spot weld coupon **not** pulled		4	
2.1	Produces single weld pulled		4	
2.2	Closes down equipment and leaves it in a clean condition		2	
2.3	Complete task in time allocated		2	
		Total Marks	**22**	

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Marker 1		Moderator
Marker 2		

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SkillAuto Selection – Auto Body Repair
Task D – Spot Welding

Judges Advice Sheet

One reminder to use PPE is permitted before deducting marks
One warning regarding safe practices permitted before deducting marks

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SkillAuto Selection – Auto Body Repair
Task D – Spot Welding

Host Centre Brief:

Competitors should be supplied with 10 spot weld coupons each, sufficient for 5 welds. The coupons should be primed both sides and therefore abrasive or a suitable tool should be supplied in order for competitors to remove the primer.

Suitable ‘weld through’ primer should be provided to candidates

If the centre has an automatic or semi automatic welder some thought should be given to pre-setting the machine to test the competitors understanding of the process and introducing a problem solving element into the task. This for example may involve using a poor profile or burned welding tip? This means that the task will have to be re-set after each competitor.

Infrastructure List:

Item Description	Number per competitor
Spot welder and accessories	1
Welding screens	2
Fume Extraction	1
Welding bench c/w vice	1
Primered mild steel coupons	10
Sander or suitable abrasives to clean off primer coat	1
Set up jig/welding frame	1
General hand tools	selection

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SkillAuto : Y Broses Ddewis - Trwsio Corff Cerbyd
Tasg A - Trwsio Panel Sydd Wedi'i Ddifrodi

<u>Taflen Gyfarwyddiadau i Gystadleuwyr</u>

Mae gennych chi **30 Munud** i gwblhau'r dasg hon

1. Defnyddiwch y ffeil corff i weld faint o ddifrod a ddangoswyd i chi. Dylech dynnu digon o ddeunydd er mwyn nodi'r difrod.

2. Defnyddiwch y doli cywir o'r rhai a ddarparwyd a ffeil bwmpio neu'r morthwyl cywir er mwyn trwsio'r difrod.

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SkillAuto : Y Broses Ddewis - Trwsio Corff Cerbyd
Tasg A - Trwsio Panel Sydd Wedi'i Ddifrodi

Y Cynllun Marcio

Cystadleuydd:	
Elfen o'r gystadleuaeth: **A – Trwsio Panel Sydd Wedi'i Ddifrodi**	**Dewis o flaen llaw (*Pre-selection*)**
Dyddiad:	
Lleoliad:	**Corff Car**

Defnyddiwch y ffurflen hon ar gyfer marcio gwrthrychol

Amser Dechrau: **Amser Gorffen:** **Amser sy'n cael ei ganiatáu. 30 munud**

Cyfeirnod Elfen	Meini Prawf neu Ddisgrifiad o'r Marcio	Gofynion	Marc Mwyaf Posibl	Marc a Ddyfarnwyd
1.1.	Cadw at arferion gwaith diogel drwy gydol y dasg		1	
1.2	Defnyddio Cyfarpar Diogelu Personol (PPE) addas		1	

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1.3	Dewis y ffeil gywir ar gyfer corff y cerbyd		2	
1.4	Addasu'r ffeil i'r proffil addas		1	
1.5	Defnyddio'r ffeil mewn ffordd sy'n dangos rheolaeth	Rheoli'r offer yn iawn	1	
1.6	Nodi'r difrod yn glir		2	
1.7	Symud maint addas o'r deunydd er mwyn nodi'r difrod		1	
1.8	Dewis yr offer trwsio / y doli cywir	1 marc yr offer	2	
1.9	Cael gwared â'r difrod ac adfer yr amlinell (*contour*)		4	
2.1	Y man sy'n cael ei drwsio'n cael ei adael mewn cyflwr gorffenedig	Dim crafiadau dwfn	1	
2.2	Y dasg wedi ei chwblhau o fewn yr amser penodedig		2	
		Cyfanswm	**18**	

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Marciwr 1	**Cymedrolwr**
Marciwr 2	

Llofnodion y marcwyr i gadarnhau cywirdeb y canlyniadau hyn. Llofnodwch a phrintiwch eich enw, os gwelwch yn dda.

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SkillAuto : Y Broses Ddewis - Trwsio Corff Cerbyd
Tasg A - Trwsio Panel Sydd Wedi'i Ddifrodi

<u>Ffurflen Gyngor i'r Beirniaid</u>

Cewch atgoffa am wisgo Cyfarpar Diogelu Personol (PPE) unwaith cyn tynnu marc.

Bydd y cystadleuwyr gorau nid yn unig yn trwsio'r difrod ond hefyd yn defnyddio'r ffeil corff yn gywir er mwyn sicrhau gorffeniad sydd mor lân â phosibl.

<u>Briff i'r Ganolfan Brawf:</u>

Dylai canolfannau ddarparu panel sydd wedi ei baentio a dylen nhw roi tolc neu 'ding' BYCHAN fel y gellir ei weld ar banel newydd sy'n cael ei ddosbarthu i weithdy. Panel coronog araf (slow crowned) fyddai orau.

Dylid rhoi'r panel ar stondin panel (yn ei safle arferol) a'i glymu â chwlwm cebl neu glamp. Dylid annog cystadleuwyr i drwsio'r panel yn y safle hwn.

Dylid arddangos yr offer addas ond dylid hefyd cynnwys offer sy'n anaddas ar gyfer yr atgyweirio, e.e. ffeil peiriannydd yn ogystal â ffeil corff, ffeil corff amgrwm (*convex body file*) os oes un ar gael, yn ogystal â ffeil cymwysadwy (*adjustable file*), morthwyl a fyddai'n hollol anaddas yn ogystal ag un cywir.

<u>Rhestr Isadeiledd:</u>

Disgrifiad o'r Eitem	Nifer i bob cystadleuydd
Panel – dangos y man sydd wedi ei ddifrodi	**1**
Stondin i ddal panel	**1**
Clamp neu gwlwm cebl	**1**
Ffeil Corff	**1**
Detholiad o ddolis sy'n cynnwys un sy'n addas i amlinell panel	**Dewis**
Morthwyl Planisio (*Planishing Hammer*)	**1**

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Morthwyl gaib (*Pick Hammer*)	**1**
Morthwyl Peiriannydd (gwrthdynnwr)	**1**
Ffeil Peiriannydd (gwrthdynnwr - *distractor*)	**1**
Ffeil cymwysadwy (gwrthdynnwr)	**1**
Cyfarpar Diogelu Personol (PPE)	

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SkillAuto : Y Broses Ddewis – Trwsio Corff Car
Tasg B – Weldio MIG

<u>Ffurflen Gyfarwyddiadau ar gyfer Cystadleuwyr</u>

Mae gennych chi **30 munud** i gwblhau'r dasg hon

1. **Gwirio a gosod yr offer weldio ar gyfer y math o weldio. Cofiwch gynnwys blaen gwn, tarian ffroenell (*nozzle shield*), y gosodiadau pŵer, math o wifren, cyflymder, llif a math o nwy.**
2. **Paratoi'r llenfetel a ddarparwyd.**
3. **Cynnal prawf weldio ac asesu cryfder a diffygion.**
4. **Cwblhau weldiad bôn llorweddol (*horizontal butt weld*).**
5. **Gwirio safon y weldiad gorffenedig.**
6. **Diffodd yr offer weldio ar ôl cwblhau'r dasg**

Noder: Mae 6 cwpon ar eich cyfer gwblhau 2 ddarn prawf weldio ac 1 darn ymarfer. Chi sy'n dewis pa ddarn prawf fydd yn cael ei farcio.

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Cynllun Marcio

Cystadleuydd:

Defnyddiwch y ffurflen hon ar gyfer marcio gwrthrychol

Elfen y gystadleuaeth: **Weldio MIG – Llorweddol**	**Dewis o flaen llaw (*Pre-selection*) *AutoBody***
Dyddiad:	
Lleoliad:	

Amser Dechrau : **Amser Gorffen :** **Amser sy'n cael ei ganiatáu: 30 Munud**

Cyfeirnod Elfen	**Meini Prawf neu Ddisgrifiad o'r Marcio**	**Gofynion**	**Marc Mwyaf Posibl**	**Marc a Ddyfarnwyd**
1.1	Cadw at arferion gwaith diogel drwy gydol y dasg		1	
1.2	Defnyddio cyfarpar Diogelu Personol (PPE) addas		1	
Gosod weldiad bôn llorweddol				
1.3	Gwasgedd nwy ymlaen ac wedi ei addasu		1	
1.4	Gwasgedd nwy wedi ei osod yn gywir fel bod modd newid safle neu i ganiatáu gostyngiad yn y nwy	Uchafswm 20 litr y munud	1	
1.5	Weldiad prawf wedi ei gwblhau er mwyn penderfynu ar y gosodiadau (*settings*) ar y peiriant		1	
1.6	Amperedd (*amperage*) wedi ei osod/ailosod yn ôl canlyniadau'r weldiad prawf.	Amperedd yn gostwng	1	
Weldiad bôn llorweddol – darn prawf				
1.7	Uniad y weldiad yn cael ei lanhau cyn ei weldio		1	

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1.8	Gadael bwlch addas er mwyn i'r weld allu cydio	½ i 1 X trwch y metal	1	
1.9	Uniad y weldiad yn cael ei dacio cyn weldio (o leiaf 4 tac â bylchau cytbwys rhyngddyn nhw ac wedi eu sandio'n ysgafn)	Gallu gweld y man cydio ym mhob tac. 1 marc yr un	4	
2.1	Samplau wedi eu gosod yn y cyfeiriad cywir	Llorweddol/ Bôn	1	
2.2	Weldiad gorffenedig yn barhaus. Caiff y cystadleuydd ddechrau a stopio 3 gwaith ar y mwyaf.	Dim bylchau wrth ei ddal at y golau	2	
2.3	Uchder cap y glain (*bead*) ddim yn fwy na 3 x trwch y metal.		1	

Trowch y dudalen

2.4	Man cydio'n mynd at y gwraidd. 2 farc os yw'n uno am o leiaf 75% o'r weldiad (yn barhaus) 1 marc am 50%	Gweler canllawiau'r beirniaid	3	
2.5	Weldiad yn aros ynghyd ar ôl prawf cwpan DT.	Gweler canllawiau'r beirniaid	3	
2.6	Cwblhau'r dasg yn yr amser a ganiateir		2	
		Cyfanswm	**24**	

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Llofnodion y marcwyr i gadarnhau cywirdeb y canlyniadau hyn. Llofnodwch a phrintiwch eich enw, os gwelwch yn dda

Marciwr 1		**Cymedrolwr**
Marciwr 2		

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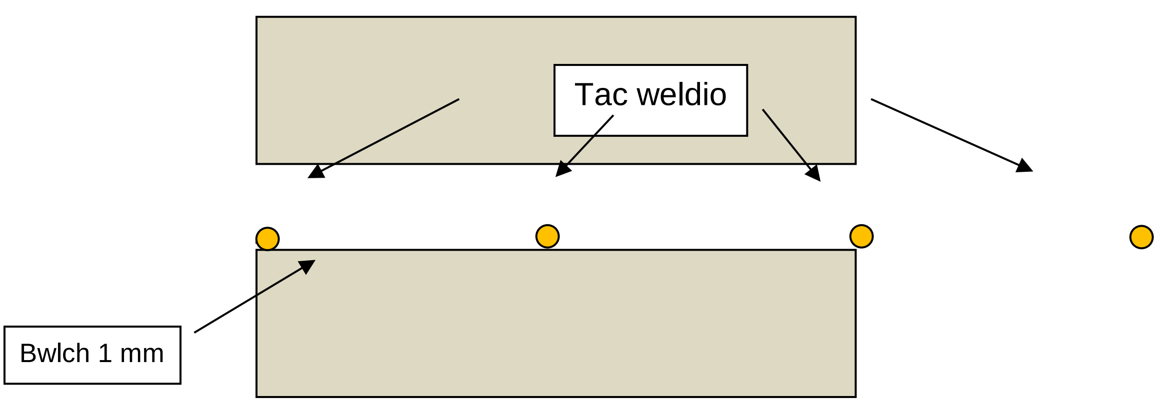
Taflen Gyngor ar gyfer Beirniaid

- Cewch atgoffa am PPE unwaith cyn tynnu marciau.
- Cewch rybuddio unwaith am arferion diogel cyn tynnu marciau.
- Weldiad bôn llorweddol
    - Gosod gwasgedd y nwy i 20 litr y funud ar y mwyaf.
    - Gadael bwlch o ½ i 1 waith trwch y metal i helpu cydio.
    - O leiaf 4 tac â bylchau cytbwys rhyngddyn nhw ac wedi eu sandio'n ysgafn cyn weldio *(gweler y llun).*
    - Dim bylchau yng nglain y weldiad parhaus.
    - Dechrau a stopio 3 gwaith ar y mwyaf.
    - Glain y weldiad yn ddim mwy na 3 X trwch y metal e.e. 3mm
    - Man cydio'n mynd at y gwraidd. 2 farc os yw yno am o leiaf 75% o'r weldiad 1 marc am 50%. Llai na 50% - dim marciau.
    - Mae'n rhaid i'r weldiad yn aros ynghyd ar ôl prawf cwpan DT.



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Briff i'r Ganolfan Brawf:

Dylid rhoi 6 cwpon dur meddal *(mild steel*) heb got sy'n mesur 200 X 75mm o 1 mm o drwch i bob cystadleuydd.

Dylai bod y peiriant weldio wedi ei ddiffodd â'r gosodiadau amperedd uchod yn golygu bod angen i'r cystadleuydd _ostwng_ yr amperedd ar gyfer y weldiad bôn.

Rhestr Isadeiledd:

Disgrifiad o'r Eitem	Nifer i bob cystadleuydd
Weldiwr MIG a manion (Nwy, weiren ac ati)	**1**
Sgriniau weldio	**2**
Offer gwaredu mygdarth (*fume extraction*)	**1**
Mainc weldio â feis	**1**
Haenau o ddur meddal 200mm X 75mm X 1mm	**6**
Sandiwr gorffennu	**1**
Jig gosod llorweddol/ffrâm weldio	**1**
Offer llaw cyffredinol	**dewis**

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Cystadleuaeth Sgiliau Cymru | Skills Competition Wales

Cronfa Gymdeithasol Ewrop
European Social Fund

AutoSkill: Y Broses Ddewis – Trwsio Corff Cerbyd
Tasg C – Gosod panel newydd

Taflen Cyfarwyddiadau i Gystadleuwyr

Mae gennych chi **1.30 awr** i gwblhau'r dasg hon

Ar y cerbyd a ddarperir, Tynnu hen adain a Gosod adain flaen newydd fel bod yr adain yn y safle cywir

Bydd y beirniad yn rhoi manylion am y gosodiad bwlch (gap settings) sydd ei angen.

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SkillAuto: Y Broses Ddewis – Trwsio Corff Cerbyd
Tasg C – Gosod panel newydd

Cynllun Marcio

Cystadleuydd:

Elfen y gystadleuaeth: **Tynnu hen banel a gosod panel newydd**
Dyddiad:
Lleoliad:

Dewis o flaen llaw *(Pre-Selection)*
AutoBody

Defnyddiwch y ffurflen hon ar gyfer marcio gwrthrychol

Amser Dechrau: **Amser Gorffen:** **Amser sy'n cael ei ganiatáu: 30 Munud**

Cyfeirnod Elfen	Meini Prawf neu Ddisgrifiad o'r Marcio	Gofynion	Marc Mwyaf Posibl	Marc a Ddyfarnwyd
1.1.	Cadw at arferion gwaith diogel drwy gydol y dasg		0.5	
1.2	Defnyddio Cyfarpar Diogelu Personol (PPE) addas		0.5	
1.3	Yr ymgeisydd wedi cyfeirio at TDS ar gyfer defnyddio'r dull cywir		2	

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1.4	MET i gyd wedi ei dynnu a'i storio'n gywir		2	
1.5	Dewis offer addasu addas		1	
1.6	Addasu'r adain yn y ffordd gywir		2	
1.7	Bwlch rhwng yr adain a'r boned / yr adain a'r drws yn gywir Ac o fewn goddefiant (*tolerance*)		3	
1.8	Ymgeisydd wedi defnyddio tyndro trorym (*torque wrench*) i'r gwerthoedd cywir yn ôl y dulliau		3	
1.9	Cerbyd yn cael ei adael yn lân a dim difrod i'r paneli		1	
2.1	Tasg yn cael ei chwblhau mewn amser		1	
		Cyfanswm	**16**	

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Marciwr 1		**Cymedrolwr**
Marciwr 2		

Llofnodion y marcwyr i gadarnhau cywirdeb y canlyniadau hyn. Llofnodwch a phrintiwch eich enw, os gwelwch yn dda

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***SkillAuto*: Y Broses Ddewis – Trwsio Corff Cerbyd**
Tasg C – Tynnu hen banel a gosod panel newydd

Taflen Gyngor ar gyfer Beirniaid

Cewch atgoffa am PPE unwaith cyn tynnu marciau.

Dywedwch wrth yr ymgeisydd beth yw'r bwlch sydd ei angen.

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Lywodraeth Cymru
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SkillAuto: Y Broses Ddewis – Trwsio Corff Cerbyd
Tasg C – Addasu panel

Briff i'r Ganolfan Brawf:

Dylai canolfannau ddarparu cerbyd addas ble y gall yr ymgeisydd dynnu a gosod adain ffrynt arall.

Cyn i'r cystadleuydd ddechrau'r dasg dylid dileu'r marciau sydd ar adain (dim arwyddion amlwg o ble dylai'r adain fod - defnyddiwch lifanydd/sandiwr i gael gwared â'r marciau). Dylai offer mesur addas fod ar gael fel medryddion bwlch, allweddi *allen* neu ficromedr mewnol digidol yn ogystal â'r offer sydd eu hangen i addasu'r paneli.

Dylai data am osodiadau bwlch fod ar gael. Gall hwn gael ei greu gan y ganolfan i weddu i'r cerbyd neu o fanylion y gwneuthurwr.

Rhestr Isadeiledd:

Disgrifiad o'r Eitem	**Nifer i bob cystadleuydd**
Cerbyd gyda darnau ar gyfer yr adain a'r boned sy'n gymwysadwy (*adjustable*)	**1**
Offer addas er mwyn addasu (socedi, sbaneri)	**1**
Medryddion bwlch (neu ddyfais mesur addas e.e. allweddi *allen*)	**1**

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SkillAuto: Y Broses Ddewis – Trwsio Corff Cerbyd
Tasg D – Sbotweldio

<u>Taflen Gyfarwyddiadau i Gystadleuwyr</u>

Mae gennych chi **30 munud** i gwblhau'r dasg hon

Gwirio a gosod yr offer weldio man gwydnwch a dau ddarn prawf i'w hasesu.

Dylid tynnu un cwpon a dylai un cwpon ddangos y weldiad ond heb ei dynnu

Noder: Cewch 10 cwpon i gwblhau'r weldiad prawf a'r darnau prawf. Chi sy'n dewis pa ddau ddarn prawf i'w marcio.

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SkillAuto: Y Broses Ddewis – Trwsio Corff Cerbyd
Tasg D – Sbotweldio

Cynllun Marcio

Cystadleuydd:

Elfen y gystadleuaeth: **Sbotweldio**
Dyddiad:
Lleoliad:

Defnyddiwch y ffurflen hon ar gyfer marcio gwrthrychol

Dewis o flaen llaw *(Pre-selection) AutoBody*

Amser Dechrau: **Amser Gorffen:** **Amser sy'n cael ei ganiatáu: 30 Munud**

Cyfeirnod **Elfen**	**Meini Prawf neu Ddisgrifiad o'r Marcio**	**Gofynion**	**Marc Mwyaf Posibl**	**Marc a Ddyfarnwyd**
1.1	Cadw at arferion gwaith diogel drwy gydol y dasg		1	
1.2	Defnyddio cyfarpar diogelu personol (PPE) addas		1	
	Paratoi'r weldiad			
1.3	Edrych ar y blaen weldio i wirio cyflwr y weld	Gwirio â'r llygad	1	
1.4	Addasu'r blaen yn ôl yr angen		1	

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1.5	Paratoi'r peiriant er mwyn paratoi'r cwpon weldio cyntaf		2	
1.6	Tynnu'r paent o'r samplau cyn weldio		1	
1.7	Rhoi'r weldiad drwy'r paent preimio ar y cwpon prawf cyn weldio		1	
	Weldio – darn prawf			
1.8	Tynnu'r cwpon cyntaf ac addasu'r peiriant yn seiliedig ar y canlyniadau	Caniateir dau brawf pellach	2	
1.9	Cynhyrchu un cwpon sbotweldio sydd **heb** ei dynnu		4	
2.1	Cynhyrchu un weldiad wedi ei dynnu		4	
2.2	Diffodd yr offer a'i adael yn lân		2	
2.3	Cwblhau'r dasg yn yr amser sy'n cael ei ganiatáu		2	
		Cyfanswm	**22**	

Marciwr 1		**Cymedrolwr**
Marciwr 2		

Llofnodion y marcwyr i gadarnhau cywirdeb y canlyniadau hyn. Llofnodwch a phrintiwch eich enw, os gwelwch yn dda

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SkillAuto: Y Broses Ddewis – Trwsio Corff Cerbyd
Tasg D – Sbotweldio

Taflen Gyngor i'r Beirniaid

- Cewch atgoffa am PPE unwaith cyn tynnu marciau.
- Cewch rybuddio unwaith am arferion diogel cyn tynnu marciau.

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SkillAuto: Y Broses Ddewis – Trwsio Corff Cerbyd
Tasg D – Sbotweldio

Briff i'r Ganolfan Brawf:

Dylid rhoi 10 cwpon sbotweldio yr un i bob cystadleuydd, digon am 5 weldiad.
Dylid preimio'r cwpons hyn ar y ddwy ochr ac felly dylid darparu sgraffinydd (*abrasive*) neu offer addas i gystadleuwyr allu tynnu'r paent preimio.

Dylid rhoi paent preimio i'r ymgeiswyr y gellir weldio drwyddo.

Os oes gan y ganolfan weldiwr awtomatig neu led-awtomatig, dylid rhagosod y peiriant er mwyn profi dealltwriaeth y cystadleuwyr o'r broses a chyflwyno elfen o ddatrys problem i'r dasg. Gallai hyn gynnwys defnyddio proffil gwael neu flaen weldio wedi llosgi? Mae hyn yn golygu hyn y bydd yn rhaid ailosod y dasg ar ôl pob cystadleuydd.

Rhestr Isadeiledd:

Disgrifiad o'r Eitem	**Nifer i bob cystadleuydd**
Sbotweldiwr ac offer atodol	**1**
Sgriniau weldio	**2**
Offer Mygdarth (*Fume extraction*)	**1**
Mainc weldio gyda feis	**1**
Cwpons dur meddal (mild) wedi eu preimio	**10**
Sandiwr neu sgraffinyddion addas i lanhau'r got o breimiwr	**1**
Jig gosod/ffrâm weldio	**1**
Offer llaw cyffredinol	**dewis**

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