

2010 Fashion and Textile Technology

Higher

Technological Project

Finalised Marking Instructions

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STEP 1 Total mark allocation - 22 marks

1:1 Identification of the key points with explanation – 6 marks available

The candidate should identify the 'core' key points - these are all the main key words of the Technological Project brief.

The number of 'core' key points which can be identified will depend on the wording of the Technological Project brief.

Candidates should number each key point identified.

Identify the key points – 3 marks

Candidates who record all the 'core' key points.	2 marks
Candidates who record ½ or more, but not all the 'core' key points.	1 mark
Candidates who record less than ½ the 'core' key points.	0 marks

Candidates who provide an additional key point, other than those identified as 'core' will be awarded an additional 1 mark.

Basic and accurate explanation of key points – 2 marks

Marks are determined by the number of key points which have a basic and accurate explanation.

If all key points have a basic and accurate explanation.			
If ½ or more but not all of the key points have a basic and accurate explanation.	1 mark		
If less than 1/2 the key points have a basic and accurate explanation.	0 marks		

Detailed and accurate explanation – 1 mark

Candidates who provide further accurate detail within the explanations will be awarded an additional mark. Extra detail means one additional point of explanation is provided for any one of the key or additional points.

Brief 1

Develop a fashionable textile item which Develop a textile item which incorporates promotes Scotland.

Brief 1

Key points

- develop
- 2. (a) fashionable
- 3. textile
- 4. item
- 5. (which) promotes
- Scotland.

Brief 2

decorative craft skills.

Brief 2

Key points

- develop 1.
- 2. (a) textile
- 3. item
- 4. (which) incorporates
- 5. decorative
- 6. craft skills.

Example of basic accurate explanation of key points

Develop • create or devise ideas for a new item

Example of further accurate detail in explanation of key points

Develop • create or devise ideas for a new item

• make an item which is original or different to what is available at present

Brief 1 – Promotes Scotland Additional Key Points		Brief 2 – Decorative craft skills Additional Key Points	
7.	Facilities/resources available	7.	Facilities/resources available
8.	Aesthetic appeal	8.	Aesthetic appeal
9.	Time available for manufacture	9.	Time available for manufacture
10.	Skills/abilities	10.	Skills/abilities
11.	Hygiene/safety	11.	Hygiene/safety
12.	Likes/dislikes/appeal to target group	12.	Likes/dislikes/appeal to target group
13.	Money available/budget of target group	13.	Money available/budget of target group
14.	Current trends/fashion	14	Current trends/fashion
15.	Quality/standard required for sale	15.	Quality/standard required for sale
16.	Gender of target group	16.	Gender of target group
17.	Age range of target group	17.	Age range of target group
18.	Suitable for mass production	18.	Suitable for mass production
19.	Allergies	19.	Allergies
20	Season of year	20.	Season of year

1:2 Draw up appropriate criteria for a specification – 10 marks available

Candidate's specification allows for a range of possible solutions

1 mark

Specification allows for a range of possible solutions which are relevant to the brief.	
If a range of solutions is not possible.	0 marks

Candidate provides five specification points, each containing more detail than the brief

2 marks

Note: Candidates are expected to provide a **minimum of five** specification points. However due to constraints of the time allocated for the Technological Project the candidates should not identify more than seven specification points as this would involve the candidate in unnecessary work.

Specification points must be **valid** (derived from the brief) to gain marks in this section. When drawing up the criteria for the specification candidates should not just rewrite the key points – greater detail is required.

Five valid specification points contain more detail than the brief.		
Three or four valid specification points contain more detail than the brief.	1 mark	
Less than three valid specification points.	0 marks	

Candidate has written all specification points in measurable/able to be tested terms

2 marks

Candidates must indicate how each specification point should be able to be measured/tested by a valid method.

All specification points are measurable/tested.	2 marks
½ or more, but not all specification points are measurable/tested.	1 mark
Less than ½ the specification points are measurable/tested.	0 marks

Candidate has linked each specification point to the key points and additional key point(\mathbf{s})

2 marks

Candidates must show that each specification point is linked to the key points and additional key points identified in Step 1 : 1. All key points should be covered.

Specification points are linked to all key points and additional key points.	2 marks
Specification points are linked to ½ or more, but not all key points and	
additional key points.	1 mark
Specification points are linked to less than ½ the key points and additional	
key points.	0 marks

Candidate provides basic explanations

2 marks

Basic explanations of the specification points, relevant to the project brief, should be provided by the candidate.

Basic explanations are provided for all specification points.		
Basic explanations are provided for ½ or more, but not all specification points.	1 mark	
Basic explanations are provided for less than ½ the specification points.	0 marks	

Candidate provides detailed explanation

1 mark

If further detail, relevant to the project brief, is provided within the explanation then an additional mark will be awarded. Extra detail means one additional point if explanation is provided for any one of the specification points.

Step 1.2 Specification

Brief 1 − Promotes Scotland Item must: Measured by: 1 • be an item made of fabric Interview with textile tech Standards Officer/textile real Resources/component che 2 • be made using suitable fabrics User/wearer trial of protot	unologist/Trading
1 • be an item made of fabric Interview with textile tech Standards Officer/textile reconstruction Resources/component che 2 • be made using suitable fabrics User/wearer trial of protot	nologist/Trading
Standards Officer/textile real Resources/component che be made using suitable fabrics User/wearer trial of protot User/wearer trial of protot	nologict/Trading
Resources/component che be made using suitable fabrics User/wearer trial of protot User/wearer trial of protot	
be made using suitable fabrics User/wearer trial of prototy	
Interview with textile tech	
take account of current fashion trends/be Interview with textile tech	nologist/retailer/
fashionable manufacturer/designer	
Internet/literary search con	nfirmed by a specified
expert	
Interview/questionnaire to	
be inspired by Scotland Interview/survey textile te	chnologist/retailer/
tourist officer	
5 encourage a positive attitude towards Interview/survey textile te	
Scotland/Scottish products/textiles tourist officer/appropriate	teacher
representing Scotland	
6 • be different to other products/be original Check against current products	
Interview with retailer/tex	tile technologist/
tourist/tourist officer	
76 • be a single item/product Questionnaire/interview to	
Interview with textile tech	_
appropriate teacher/tourist	
8 • be comparable in cost to other similar Costing exercise & price of	check/comparison
items Interview with textile tech	nologist/retailer/
tourist	
9 • be cost effective to produce/be good value Costing exercise & intervi	
for money technologist/retailer/touris	
Costing exercise & intervi	ew/questionnaire
target group/tourist	
10 • be within the budget of the target group/ Costing exercise & question	onnaire to target
tourists group/tourists	
Costing exercise & intervi	
technologist/retailer/target	<u> </u>
11 • be aesthetically pleasing to target group/ Interview/questionnaire to	
tourists Interview with textile tech	C
Sensory testing with target	
User/wearer trial of protot	
12 • take account of likes/dislikes of target Questionnaire/survey to ta	
group/tourists Interview with textile tech	•
Sensory testing with target	
13 • be of an acceptable/satisfactory standard Interview with textile tech	
teacher/EHO/Trading Star	ndards Officer/retailer/
target group/tourist	
Sensory testing with target	
technologist target group/t	
Quality checklist + intervi	ew with textile
technologist/retailer	
14 • be durable User/wearer trial of protot	
Interview with Trading Sta	andards Officer/textile
technologist/retailer	

Step 1.2 Specification

	Brief 1 – Promotes Scotland		
	must:	Measured by:	
15	be made using the facilities/resources available to the candidate	Interview with textile technologist Checklist of facilities/component checklist	
16	be within the capabilities of the candidate to produce	Trial of prototype Quality checklist Interview with textile technologist Skills analysis & confirmed by an expert	
17	be made in the time available to candidate	Timed trial of prototype & interview with textile technologist Interview with textile technologist	
18	be prepared under hygienic/safe conditions	Interview with textile technologist Quality checklist & interview with textile technologist	
19	be safe in use/wear	Interview with a textile technologist/retailer/ manufacturer/Trading Standards Officer Literary/internet search and quality checklist	
20	be suitable for mass production	Interview with textile technologist.	
21	be able to be laundered/be easy to care for	Interview with textile technologist/retailer User/wearer trials of prototype	

Note:

- The candidate **must** specify the term 'expert' if used
- A textile technologist could include a person working in textile product development or a Home Economics teacher
- NB Specification Points It must be checked that the specification points are different.
 - A candidate may use different wording to state the same thing.
 - Measured by The candidate must specify the term 'expert' if used.

Method of measuring must be able to check/assess whether the specification point has been met.

Basic explanation of specification point

• be colourful/attractive/appealing to target group • so the target group will like them

Detailed explanation of specification point

be colourful/attractive/appealing to target group
 to encourage the target group or consumer to try the product again

Brie	Brief 2 – Decorative Craft Skills			
Item			Measured by:	
1	•	be an item made of fabric	Interview with textile technologist/Trading	
			Standards Officer/textile retailer	
			Resources/component checklist	
2	•	be made using suitable fabrics	User/wearer trial of prototype	
			Interview with textile technologist	
3	•	use embellishing/decorative techniques	Interview with textile technologist/	
٥		use embermisming, according to teeminques	manufacturer	
4	•	be different to other products on the	Check against current product range and	
-		market/be original	interview with textile technologist/retailer	
5	•	be a single item/product	Questionnaire/interview to retailer/	
5		oe a single nem product	Interview with textile technologist/retailer	
6	•	be comparable in cost to other similar	Costing exercise & price check/comparison	
O	ľ	items	Interview with textile technologist/retailer/	
		items	target group	
7	•	be cost effective to produce/be good value	Costing exercise & interview with textile	
,	•	for money	technologist/retailer/target group	
		for money	Costing exercise & interview/questionnaire	
			target group/target group	
8		he within the hudget of the towest aroun	Costing exercise & questionnaire to target	
0	•	be within the budget of the target group		
			group/target group	
			Costing exercise & interview with textile	
0		1 1 1 1 1 1 1 1 1	technologist/retailer/tourists	
9	•	be aesthetically pleasing to target group	Interview/questionnaire to teenagers	
			Interview with textile technologist/retailer	
			Sensory testing with target group	
1.0			User/wearer trial of prototype	
10	•	take account of likes/dislikes of target	Questionnaire/survey to teenagers	
		group	Interview with textile technologist/retailer	
			Sensory testing with target group/textile	
			technologist/retailer	
11	•	be of an acceptable/satisfactory standard	Interview with textile technologist/appropriate	
			teacher/Trading Standards Officer/retailer/target	
			group	
			Sensory testing with target group/textile	
			technologist target group/retailer	
			Quality checklist + interview with textile	
			technologist/retailer/target group	
12	•	be durable	User/wearer trial of prototype	
			Interview with Trading Standards Officer/textile	
			technologist/retailer/manufacturer	
13	•	be made using the facilities/resources	Interview with textile technologist	
		available to the candidate	Checklist of facilities/component checklist	
14	•	be within the capabilities of the candidate	Trial of prototype	
		-	Quality checklist	
			Interview with textile technologist	
			Skills analysis	
15	•	be made in the time available to candidate	Timed trial of prototype & interview with textile	
			technologist	
			Interview with textile technologist	
16	•	be prepared under hygienic/safe conditions	Interview with textile technologist/EHO	
		of property ander my ground, but conditions		

Step 1.2 Specification

Step 1.2 Specification		
Brief 2 – Decorative Craft Skills		
Item must:		Measured by:
17	be safe in use/wear	Interview with a textile technologist/retailer/ manufacturer/Trading Standards Officer Literary/internet search Quality checklist
18	be suitable for mass production	Interview with textile technologist/ manufacturer
19	• be able to be laundered/be easy to care for	Interview with textile technologist/retailer User/wearer trials of prototype
20	be fashionable/take account of current fashion trends	Interview with textile technologist/retailer/ manufacturer/designer Internet/literary search confirmed by a specified expert Interview/questionnaire to target group

Note:

- The candidate **must** specify the term 'expert' if used
- A textile technologist could include a person working in textile product development or a Home Economics teacher

 ${\bf NB} \quad \bullet \quad {\bf Specification \ Points} \quad - \ {\bf It \ must \ be \ checked \ that \ the \ specification \ points \ are \ different.}$

 $-\,A$ candidate may use different wording to state the same thing.

Measured by

 The candidate must specify the term 'expert' if used.

Method of measuring must be able to check/assess whether the specification point has been met.

Basic explanation of specification point

• be colourful/attractive/appealing to target group • so the target group will like them

Detailed explanation of specification point

be colourful/attractive/appealing to target group
 to encourage the target group or consumer to try the product again

1:3 Devise an overall plan for investigations – 6 marks available

Candidate presents a list of investigations (minimum five) – 2 marks

Candidates who provide a list of possible investigations	
which focus clearly on:	
 the core key points of the project brief 	
• the candidates specification points	2 marks
• a clear aim/purpose	

 Candidates who provide a list of investigations Which do not focus clearly on the key points and the specification will be awarded. Obvious omissions from the list of investigations will result in marks being deducted. 	1 mark
 Candidates who provide a list of investigations Where less than half of the investigations focus on the key points and specification points. 	0 marks

Candidate identifies techniques to be used – 2 marks

All techniques must be appropriate for the investigations and so allow the	
candidate the possibility of collecting relevant data/information.	2 marks
½ or more of the techniques are consistently appropriate	1 mark
Less than ½ of the techniques are consistently appropriate	0 marks

Candidate justifies the need for the investigation – 2 marks

All justifications must be	
well thought out	
• linked to the investigation/use of the technique.	2 marks
½ or more of the justifications lack of clarity/well thought out/linked to the	
investigation or the technique.	1 mark
Less than ½ of the justifications lack clarity/well thought out/linked to the	_
investigation or the technique.	0 marks

From the proposed list of investigations drawn up in 1 : 3 above, candidates should form a prioritised list of those investigations which they propose to undertake.

No marks are awarded at this stage but candidates are expected to focus on those investigations most relevant to the needs of the project brief. A number of investigations may be combined by using one technique.

No more than 3 investigations depending on their nature, could be realistically carried out in the time available. The three investigations identified should ensure that all specification points are investigated. Candidates will be disadvantaged if they do less than 3 as they will not have collected sufficient data to create a valid solution.

Candidates who intend to use a questionnaire as an investigation must issue a minimum of 20 in order to gain valid results. If, however, too many questionnaires are distributed, collecting the data may become problematic for candidates.

Candidates should complete this work on pages 9 - 11 of the pro forma.

Step 1.3 INVESTIGATIONS

	o 1.3 INVESTIGATIONS of 1 – Promotes Scotland	
	estigation – to establish/find out/investigate	Technique
1	Current fashion trends	Interview/questionnaire to target group/textile technologist/retailer Survey of retail outlets
2	Possible inspiration from Scotland	Literary/Internet search Interview with textile technologist/retailer/ manufacturer/tourist officer Literary/Internet search Survey of retail outlets
3	Possible target market	Interview with textile technologist/retailer/ manufacturer Literary/Internet search
4	Current product range	Survey of retail outlets Literary/internet search Interview with textile technologist/retailer/manufacturer
5	Range of suitable fabrics/trimmings/ fastenings available	Survey of retail outlets Literary/Internet search Interview with textile technologist/retailer/ manufacturer
6	Range of retail outlets offering suitable fabrics	Survey of retail outlets Literary/Internet search
7	Ideas for potential solutions	Survey of retail outlets Interview with textile technologist/manufacturer/ retailer Literary/Internet search Manufacture of prototype (s) and check Sensory testing/survey/interview with target group
8	Choice of fabrics for potential solutions	Survey of retail outlets Interview with textile technologist/manufacturer/ retailer Manufacture of prototype (s) and check Sensory testing/survey/interview with target group/tourists
9	Suitability for the target group	Interview with textile technologist/retailer/ manufacturer Interview/questionnaire/survey/sensory testing with target group/tourists
10	Price range of similar products/potential solutions	Interview with target group/textile technologist Survey of current product range
11	Cost of potential components/solutions	Costing exercise Survey of retail outlets
12	Budget of target group/amount target group is prepared to pay	Interview/questionnaire with target group/textile technologist
13	Aesthetic appeal of potential solutions	Sensory testing/interview/questionnaire with target group/textile technologist/retailer
14	Likes and dislikes of target group	Interview/questionnaire to target group/textile technologist/retailer Sensory testing with target group
15	Facilities/resources available to the candidate	Interview with textile technologist Resource/equipment checklist

Step	Step 1.3 INVESTIGATIONS (continued)		
	Brief 1 – Promotes Scotland		
Inve	stigation – to establish/find out/investigate	Technique	
16	Skills necessary for manufacturing of the	Interview with textile technologist	
	potential solution by the candidate	Skills audit & check with textile technologist	
17	Time available for manufacturing of the	Interview with textile technologist	
	potential solution/by the candidate	Timed trial of prototype & check with textile	
		technologist	
18	Hygiene/safety requirements for food	Interview with textile technologist/EHO	
	production		
19	Quality requirements of potential solutions	Interview with textile technologist/	
		Manufacture prototype(s) & trial	
		Sensory testing/questionnaire/interview with	
		target group	
20	Suitability for mass production	Interview with textile technologist/restaurant	
		manager/chef	
21	Influencing factors on final product	Interview with textile technologists	
		Interview/questionnaire to target group	
22	Durability of potential solutions	Interview with Trading Standards officer	
		Literary/Internet search	
		User/wearer trial	
23	Safety in use/wear	Interview with Trading Standards Officer/textile	
		technologist	
		Literary/Internet search	
24	Care requirements of materials/resources	Interview with textile technologist	
	used	Literary/Internet search	
		Trial of prototype(s)	

Note:

- The candidate **must** specify the term 'expert' if used
- A textile technologist could include a person working in textile product development or a Home Economics teacher
- Retailer outlet must be relevant to investigation and be specified

Interview textile technologist/retailer/ Interview with textile technologist/retailer/ Interview with textile technologist/retailer/ Interview with textile technologist/retailer/ Interview with textile technologist/manufacturer/ Interview with target group/textile technologist/ Interview with target group/textile technologist/ Interview yith target group/textile technologist/ Interview/questionnaire with target group/textile technologist/ Interview/questionnaire to target group/textile technologist/ Interview/questionnaire to target group/textile technologist/ Interview/questionnaire to target group/textile technologist/ Interview with textile technologist/ Interview wit	Brie	Brief 2 – Decorative Craft Skills			
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2. Current use of decorative techniques Survey of retail outlets			· · · ·		
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Range of suitable fabrics/trimmings/ fastenings available		1			
Range of suitable fabrics/trimmings/ fastenings available			Literary/internet search		
Range of suitable fabrics/trimmings/ fastenings available					
fastenings available Fastenings available	3	Range of suitable fabrics/trimmings/	· ·		
Interview with textile technologist/retailer/manufacturer			· · · · · · · · · · · · · · · · · · ·		
4 Range of retail outlets offering suitable fabrics/trimmings/fastenings 5 Ideas for potential solutions/potential solutions on the market 6 Choice of fabrics/decorations/trimmings for potential solutions 6 Choice of fabrics/decorations/trimmings for potential solutions 7 Price range of similar textile products 8 Cost of potential components/solutions 8 Cost of potential components/solutions 10 Aesthetic appeal of potential solutions 10 Aesthetic appeal of potential solutions 11 Likes and dislikes of target group 12 Current trends/fashion 13 Facilities/resources available to the candidate 14 Skills necessary for manufacturing the potential solution by the candidate 15 Time available for manufacturing of the potential solution/by the candidate 16 Hygiene/safety requirements for potential 17 Interview with textile technologist 18 Survey of retail outlets 18 Literary/Internet search 19 Manufacture of prototype (s) + check Sensory testing/survey/interview with target group/textile technologist 10 Survey of retail outlets 11 Likes and dislikes of target group 12 Current trends/fashion 13 Facilities/resources available to the candidate 14 Skills necessary for manufacturing the potential solution by the candidate 15 Time available for manufacturing of the potential solution/by the candidate 16 Hygiene/safety requirements for potential 17 Interview with textile technologist 18 Interview with textile technologist 18 Interview with textile technologist 19 Interview with textile technologist 10 Interview with textile technologist 10 Interview with textile technologist 11 Interview with textile technologist 12 Interview with textile technologist 13 Interview with textile technologist 14 Hygiene/safety requirements for potential 15 Interview with textile technologist 16 Hygiene/safety requirements for potential 17 Interview with textile technologist/Trading		8			
Range of retail outlets offering suitable fabrics/trimmings/fastenings Literary/Internet search					
fabrics/trimmings/fastenings	4	Range of retail outlets offering suitable			
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Brie	Brief 2 – Decorative Craft Skills		
Inve	stigation – to establish/find out/investigate	Technique	
17	Quality requirements of potential solutions	Interview with textile technologist	
		Manufacture prototype(s) & trial	
		Sensory testing/questionnaire/interview with	
		target group	
19	Suitability for mass production	Interview with textile technologist	
20	Influencing factors on final product	Interview with textile technologist	
21	Durability of potential solutions	Interview with Trading Standards officer	
		Literary/Internet search	
		User/wearer trial	
22	Safety in use/wear	Interview with Trading Standards Officer/textile	
		technologist	
		Literary/Internet search	

Note:

- The candidate <u>must</u> specify the term 'expert' if used
- A textile technologist could include a person working in textile product development or a Home Economics teacher
- Retailer outlet must be relevant to investigation and be specified

2:1 Implement the overall plan for investigations – 12 marks available

The mark allocation for this area will be based on candidate's performance in a series of investigations.

Candidates will be assessed on the results and conclusions from each investigation – see the marking criteria breakdown listed on the next page.

Teachers/lecturers must ensure candidates present the results and conclusions of each investigation on pages 9-11 of the pro forma only

Candidates using computer software to produce results eg bar charts or graphs must ensure that these are presented only on the pages allocated for this work ie pages 9-11 of the proforma.

Candidates who present the results and conclusions of each investigation on more than one A4 sheet of paper will be marked accordingly.

See Appendix 1 for guidance on carrying out investigations/tests

Implement the overall plan for investigations

- Results must be brief, concise and easy to interpret
- Results must show a clear link to the aim/purpose of the investigation
- Results must be derived from the investigations and based on facts and evidence
- Conclusions must be based on the results obtained

All investigations candidates have fulfilled the aims on page 8 of the pro forma	3 marks
1/2 or more investigations candidates have fulfilled the aims on page 8 of the pro forma	2 marks
Less than ½ investigations candidates have fulfilled the aims on page 8 of the pro forma	1 mark
In no investigations candidates fulfilled the aims on page 8 of the pro forma	0 marks
All investigations contain brief/concise/easy to interpret results	3 marks
½ for more investigations contain brief/concise/easy to interpret results	2 marks
Less than ½ investigations contain brief/concise/easy to interpret results	1 mark
No investigations contain brief/concise/easy to interpret results	0 marks
	2
All results are based on fact/valid evidence/relevant to design brief	3 marks
½ or more of the results are based on fact/valid evidence/relevant to design brief	2 marks
Less than ½ of the results are based on fact/valid evidence/relevant to design brief	1 mark
No results are based on fact/valid evidence/relevant to design brief	0 marks
All conclusions are based on the results of investigations and/or show progression	3 marks
½ or more conclusions are based on the results of investigations and/or show progression	2 marks
Less than ½ conclusions are based on the results of investigations and/or show progression	1 mark
No conclusions are based on results of investigations and/or does not show progression	0 marks

2:2 Derive a solution from the investigations – 3 marks available

Generate one solution - 2 marks (ie ONE dish) NB it is extremely important that centres strictly adhere to this rule. No marks will be allocated for STEP 3 or STEP 4 if candidates generate more than one solution.

Candidates derive **one solution** which must

Be relevant to the needs of the project brief	1 mark
Be based on the results and conclusions reached in the investigations	
Describes the solution in detail	1 mark

The solution should be described in detail so it is able to be visualised.

Various methods may be used eg- written details, recipes, sketches, diagrams, labelled diagrams, storyboards – to ensure clarity.

Brief 1: Promotes Scotland Possible solutions

Brief 2: Decorative Craft Skills Possible solutions

Scotland

Any fashionable textile item which promotes Any textile item which incorporates decorative craft skills

NB Stop marking if more than one solution is given and refer technological project to **Principal Assessor**

3:1 Manufacture the chosen solution – 10 marks available

Candidate completes the planned sequence of work

5 marks

Candidates must complete the plan **before** starting to manufacture the solution.

Candidates will be marked accordingly if the plan is written **retrospectively**.

Candidates who draw up a sequence of work which consistently demonstrates effective deployment of time	5 marks
Candidates who draw up a sequence of work with minor lapses in the deployment of time	4 marks
Candidates who draw up a sequence of work with occasional lapses in the deployment of time	3 marks
Candidates who draw up a sequence of work with regular lapses in the deployment of time	2 marks
Candidates who draw up a sequence of work with frequent lapses in the deployment of time	1 mark
Candidate who submits a retrospective sequence of work	0 marks

Candidates may choose to present their sequence of work in an appropriate form eg table, chart, written details, flow chart. An indication of dates, times and details of the proposed work to be undertaken must demonstrate effective use of time by the candidate.

The sequence of work must show logical progression and allow the solution to be manufactured

Candidates' work must be completed on page 13 of the pro forma.

Candidate identifies and requisitions equipment and resources

3 marks

Candidates who identify and requisition all resources and equipment	3 marks
Candidates who identify and requisition most resources and equipment	2 marks
Candidates who omit any obvious resources and/or equipment	1 mark

Resources will depend on the chosen solution and may relate to textiles, equipment.

Note: all resources and equipment required for manufacture must be listed and taken into account. Exact types and colours of textiles and trimmings including sizes/dimensions must be stated.

2 marks

Candidate consistently justifies effective deployment of equipment and resources

Justification should relate to all the identified equipment and resources to gain full marks.

After completing the **plan** for manufacture, candidates should start to manufacture the solution.

Candidates should be encouraged to make notes on page 15 as they are carrying out the manufacturing process. Notes may be made on how manufacture is proceeding, any problems encountered and any changes/modifications made to the plan.

Photographic evidence of the candidates' work must be attached to page 16 of the proforma.

Two photographs are required:

- one should provide evidence of the solution **during manufacture**
- the other should provide evidence of the **completed** solution.

Although the quality of the photographs is not important, they **must** give an indication of the type of work being carried out and completed by the candidate.

Although no marks are awarded here, **photographic evidence must be provided** of the candidates' solution.

If photographic evidence is not provided, no further marking of the Technological Project will be carried out as no evidence has been provided on which to base the marking of the next stages of work.

If problems occur with photographic evidence, then the teacher/lecturer should contact Graeme Findlay, Qualifications Manager (0845 213 5492) or Romana Howells, Qualifications Officer (0845 213 5480) immediately.

Please note:

Page 16 of the electronic version of the pro forma has been set up to allow the electronic insertion of digital photographs.

Such photographs **should not** be cut and then pasted into the spaces provided. Photographs should be inserted in the spaces provided by using the *'insert picture from file'* facility in Microsoft Word.

3:2 Devise two tests for the manufactured solution – 3 marks available

Candidate presents two tests

1 mark

Candidates should present **two** appropriate tests – failure to do this will result in no marks being awarded.

Candidate identifies techniques to be used

1 mark

Two different techniques should be identified.

Techniques must be **appropriate** to the tests, allowing candidates to collect relevant data/information.

Candidate justifies the two tests

1 mark

Justifications should be

- clear and well thought out
- linked to the test.

NB Candidates are expected to include any literary titles/authors, web addresses and the title of any person/expert interviewed. Candidates are expected to identify the target group which are used during testing.

Briefs 1 & 2

Test	Technique	Justification
Examination by a specified expert eg manufacturer/ retailer/textile technologist/ tourist officer Examination by target group	Interview/questionnaire with specified expert Sensory test with specified expert Interview/questionnaire/with target group Sensory testing with target group Observational checklist Wearer/user trial with target group	 To check aesthetic qualities To check if item is marketable To check cost effectiveness/ profitability of item To find out if item is acceptable/appropriate to target group To establish marketability
3. Costing exercise	Costing exercise confirmed by interview with an expert, eg textile technologist/retailer	 To establish whether item is cost effective to produce To establish a selling price for the finished item

3:3 Implement the tests for the manufactured solution – 8 marks available

Implement the overall plan for investigations

Marking Criteria

progression

- Results must be brief, concise and easy to interpret
- Results must show a link to the aim/purpose of the test
- Results must be derived from the tests and based on facts and evidence
- Conclusions must be based on results obtained

For both tests – candidates have done as they intended from page 15	2 marks
For 1 test – candidates have done as they intended from page 15	1 mark
No test	0 marks
Both tests contain brief/concise/easy to interpret results	2 marks
One test contains brief/concise/easy to interpret results	1 mark
No test contains brief/concise/easy to interpret results	
All results of tests are based on fact/valid evidence/relevant to specification points/design brief	2 marks
One result of tests is based on fact/valid evidence/relevant to specification points/design brief	1 mark
No results of tests are based on fact/valid evidence/relevant to specification points/design brief	0 marks
Conclusions for two tests are based on the results of tests and/or show progression	2 marks
Conclusions for one test are based on the results of tests and/or show progression	1 mark

No conclusions for the tests are based on results of tests and/or show no

0 marks

5 marks

4:1 Evaluate the chosen solution – (6 marks available)

Candidate provides accurate evaluation some of which is detailed against the specification

Candidates must rewrite (or copy and paste) the specification points in the appropriate column. Candidates must evaluate the solution against each specification point. Candidates should use the results of the investigations, manufacture and/or testing where appropriate.

Candidates who evaluate all or five specification points	5 marks
Candidates who evaluate four specification points	4 marks
Candidates who evaluate three specification points	
Candidates who evaluate two specification points	
Candidates who evaluate one specification point	

Candidate provides detailed accurate evaluation against specification

1 mark

If further detail is provided within the evaluations then an additional mark will be awarded.

Extra detail means that one additional point of evaluation is provided for **any one** of the specification points.

4:2 Evaluate the Technological Project – (6 marks available)

Candidates evaluate the Technological Project: Step 1 Analysing, Step 2 Investigating and Step 3 Manufacturing and Testing

All of the following criteria must be used in the evaluation

- time
- resources
- skills and abilities

Marks will not be awarded to candidates who do not use these criteria in their evaluation.

The evaluation, which may include adaptations/modifications, **must be based on evidence** which can be found within the candidates' Technological Project pro forma eg from investigations, manufacture and/or testing.

In the evaluation the candidates should give an opinion based on facts from their Technological Project and then explain the consequences for the final solution.

Candidates should provide **two** points of evaluation for **each** step of the Technological Project.

One mark should be awarded for each point of evaluation. A minimum of one mark must come from each step evaluated.

Step 1	Analysing	2 marks
Step 2	Investigating	2 marks
Step 3	Manufacturing and Testing	2 marks

Pages 23 to 24 of the pro forma should be used for the evaluation.

Appendix 1 Higher Technological Project Guidance on Carrying out Investigations/Tests

Three investigations and two tests must be carried out.

The aim, which should be linked to the candidate's specification, should be rewritten or cut and pasted from page 8 of the pro forma onto the top of the investigation page.

Questionnaire

- Minimum of 20 respondents.
- Minimum 5/8 relevant/valid questions linked to aim/specification to allow relevant data to be collected.
- Questions and all possible answers must be displayed.
- All responses must be displayed including nil responses.
- Given constraints of space, it is not necessary to display results as pie charts/graphs.
- Table format for displaying results of questionnaires can be space saving.

Survey

- Must identify the source(s) of information.
- Source of information must be relevant to investigation.
- The following sources could be used including the internet, literary, shop, restaurant/café as a source of information.
- The source of information should be identified.
- The place selected should be related to the quality and quantity of the data available rather than the number of sources however more than one source should be used.
- Information should be displayed using appropriate headings, sub-divisions etc.

Interviews

- Carefully consider the suitability of the person interviewed. Must clearly identify their position in establishment/job title.
- Minimum 5/8 relevant questions linked to aim/specification to allow relevant data to be collected.
- Open-ended questions should be used to allow more data to be collected from the interviewee.
- Questions should be carefully formatted to extract useful facts and avoid one word responses such as Yes/No.
- All questions and responses must be displayed.

Internet/Literary search

- All sources must be clearly identified.
- Should be related to the quality/quantity/relevance of the data available rather than the number of sources.
- Graphics may be included where relevant.
- Data collected should be organised using appropriate headings/sub-divisions etc.
- Information should not be lifted 'en bloc' from websites. It is appropriate to summarise key points which are relevant to the aim/specification.

Costing

- Breakdown cost of all ingredients/components must be included.
- Details of quantities and unit costs must be included.
- Sources should be included where appropriate.
- Comparative costing should measure 'like for like'.

NB Costing only proves cost of items/components. On its own it does not provide low/high cost, value for money, acceptability of price to target group.

Fabric Analysis

- There is no need to repeat fabric tests where information is already easily available in textbooks/ websites.
- Fabrics used for testing must be clearly identified ie construction/fibre composition.
- Only fabrics being considered for potential solution should be tested/sampled/investigated towards final solution.
- Details of method testing must be given.

Sensory Testing

- All potential solutions must be clearly described.
- Breakdown of results must be shown. Summary of results is not acceptable.
- Key must be provided.
- It is appropriate to ask questions to elicit potential improvements/modifications.
- It is suggested for sensory testing that a minimum of five people are used to assess the products.

Technological Project Higher

Summary Mark Allocation

Total 70 marks available

Step	Mark Breakdown	Allocation
1.1	Identification of the key points with explanation	
	Identify the key points	2 marks
	Additional key points	1 mark
	Key points plus basic and accurate explanation	2 marks
	Key points plus detailed and accurate explanation	1 mark
		Total mark allocation 6
1.2	Draw up appropriate criteria for a specification	
	Allow for a range of possible solutions	1 mark
	Contain more detail than the brief	2 marks
	Be written in measurable/able to be tested terms	2 marks
	Link each specification point to the key points	2 marks
	Provide basic explanations	2 marks
	Provide detailed explanations	1 mark
		Total mark allocation 10
1.3	Devise an overall plan for investigations	
	Present a list of investigations	2 marks
	Identify techniques to be used	2 marks
	Justify the need for the investigations	2 marks
		Total mark allocation 6
	Total mark allocation for Step 1 22 ma	nrks
2.1	Implement the overall plan for investigations	
	Aims fulfilled	3 marks
	Brief, concise, easy to interpret	3 marks
	Relevant and valid results	3 marks
	Conclusions	3 marks
		Total mark allocation 12
2.2	Derive a solution from the investigations	
	Generate one solution – based on evidence	1 mark
	Relevant to brief	1 mark
	Describe the solution in detail	1 mark
		Total mark allocation 3
	Total mark allocation for Step 2 15 ma	arks

Step	Mark Breakdown	Allocation			
3.1	Manufacture the chosen solution				
	Step by step sequence of work showing effective deployment of time	5 marks			
	Requisition of resources	3 marks			
	Justification of resources/equipment	2 marks			
		Total mark allocation 10			
3.2	Devise two tests for the manufactured solution				
	Present two tests	1 mark			
	Identify techniques to be used	1 mark			
	Justify the two tests	1 mark			
		Total mark allocation 3			
3.3	Implement the tests for manufactured solution				
	Aims fulfilled	2 marks			
	Brief, concise and easy to interpret	2 marks			
	Relevant and valid reasons Conclusions	2 marks 2 marks			
	Conclusions	Total mark allocation 8			
	Total mark allocation for Step 3 21 marks				
4.1	Evaluate the chosen solution				
	Accurate explanation some of which is detailed against each specification point (to include results of investigations and/or tests where appropriate)				
	Valid evaluations	5 marks			
	Provide detailed accurate explanation	1 mark			
	·	Total mark allocation 6			
4.2	Evaluate the Technological Project				
	Candidate can evaluate Steps 1-3 of the Technological Project with detailed reference to the following criteria:				
	Time				
	Resources Skills/abilities				
	Step 1 Analysing	2 marks			
	Step 2 Investigating Step 3 Manufacturing and Testing	2 marks 2 marks Tatal month allocation (
		Total mark allocation 6			
	Total mark allocation for Step 4 12 marks				

[END OF MARKING INSTRUCTIONS]