



# Materials Design and Technology ATAR course practical (portfolio) examination requirements

2025

### **Acknowledgement of Country**

Kaya. The School Curriculum and Standards Authority (the Authority) acknowledges that our offices are on Whadjuk Noongar boodjar and that we deliver our services on the country of many traditional custodians and language groups throughout Western Australia. The Authority acknowledges the traditional custodians throughout Western Australia and their continuing connection to land, waters and community. We offer our respect to Elders past and present.

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# Materials Design and Technology ATAR course practical (portfolio) examination

This document provides general advice to teachers, candidates and parents/carers/guardians about the Materials Design and Technology ATAR course practical (portfolio) examination.

Where a Year 12 ATAR course has both a written and a practical examination, students are required to sit for both of these examinations. Students who do not sit an ATAR course examination and do not have an approved sickness/misadventure application for that course will not have the grades for the pair of units completed in that year contribute to the calculation of the Western Australian Certificate of Education (WACE).

Schools must submit their candidates' practical (portfolio) submissions to the designated venue between **8.30 am** and **4.00 pm** on **Tuesday, 23 September 2025**.

Delivery instructions for the portfolios will be sent to schools during Term 3.

For the Materials Design and Technology ATAR course examination, the weightings are:

Written examination 50%Practical (portfolio) examination 50%

Note: practical (portfolio) examination submissions received after the published time and date cannot be accepted.

## 1. Reporting achievement

Teachers are responsible for ensuring the practical (portfolio) examination requirements are met and candidates are adequately prepared. Teachers must ensure they are using the current syllabus. Any further advice on matters related to the syllabus or assessment will be published in the <a href="https://www.scsa.wa.edu.au/publications/circulars/7to12-circulars"><u>7to12</u></a> on the School Curriculum and Standards Authority (the Authority) website.

Teachers should also refer to the ATAR course examination information published in Section 6 of the <u>WACE Manual</u> (http://www.scsa.wa.edu.au/publications/wace-manual) on the Authority website.

For all ATAR courses with a practical examination, for the pair of units, schools are required to submit to the Authority a:

- school mark out of 100 (weighted for each component)
- school mark out of 100 for the written component
- school mark out of 100 for the practical component
- grade for the completed pair of units.

#### 2. Forms

The following forms will be used for the practical (portfolio) examination submission and have been provided in this document as sample appendices only.

- Declaration of authenticity (Appendix 1)
- Predicted scores data entry form (Appendix 2)

Note: copies of these forms are available for download from the Materials Design and Technology course page on the Authority website.

## 3. Candidates with an injury, illness or disability

Candidates who have a permanent disability or condition that could prevent them demonstrating their knowledge, understanding or skills under standard examination conditions may apply to be assessed with equitable access adjustments.

Application is made through the school on the form available from the <u>Applications and Order Forms</u> <u>page (https://www.scsa.wa.edu.au/forms/forms)</u> on the Authority website. Adjustments requested for the written examinations do not apply to the practical examinations. Requests for adjustments in the practical examinations must be stated separately in the application and relate directly to the nature and duration of the practical examination. Applications should be received by the Authority by **Thursday, 27 March 2025.** 

#### 4. Provisions for sickness or misadventure

Consideration may be given to candidates (with the exception of non-school candidates) suffering from a temporary sickness or misadventure close to or during the examinations. The candidate may submit a *Sickness/Misadventure Application* if they believe their performance in an examination has been affected by the sickness or misadventure.

Applications for misadventure must relate to circumstances beyond the usual control of the candidate; for example, damage to a portfolio piece during delivery. If a candidate is not able to complete an examination portfolio for health reasons, it is important that medical evidence be provided to verify the nature and severity of the illness/injury. In most cases, that will mean producing evidence from a medical professional who was consulted on the day of the examination or the day before.

Applications will be considered only if made on the correct form, available from the Application and Order Forms page (<a href="https://www.scsa.wa.edu.au/forms/forms">https://www.scsa.wa.edu.au/forms/forms</a>) on the Authority website from September. Applications that relate to the practical component must be submitted immediately following the practical examination.

Only one form should be used to cover all practical examinations for which the application is being made. The completed form and all supporting evidence must be received at the Authority by **4.00 pm Thursday, 30 October 2025.** 

### 5. Late submissions

Late practical (portfolio) examination submissions cannot be accepted. Candidates who do not submit a portfolio and do not have an approved sickness/misadventure claim will not receive a mark for the course and it will not contribute to any of the WACE requirements.

## 6. Principles of external assessment

The marking process preserves the anonymity of the candidate and their school. This requires that candidates and their work are identified only by their Western Australian student number (WASN).

## 6.1. Authenticity of the candidate's work

The authenticity of the candidate's portfolio work must be guaranteed. It is essential that:

- the main development of work takes place in school time
- work completed away from school is regularly monitored by the teacher
- each candidate signs a *Declaration of authenticity* (Appendix 1), a legal document witnessed by the supervising teacher and the school principal, to endorse the originality/authenticity of the submitted practical portfolio
- a copy of the signed *Declaration of authenticity* is kept by the teacher on record at the school
- no other person works on any part of the candidate's practical (portfolio) examination
- this work is not submitted by the candidate for any other ATAR course examination
- the teacher/supervisor has a significant role in monitoring candidate progress and in providing ongoing feedback and assessment throughout the process.

Note: only materials received by the Authority by the specified time on the due date are permitted to be presented to the markers.

Teachers should monitor the candidate's work from the beginning to ensure there is no plagiarism in the work that is to be submitted for marking. If the teacher has been unsuccessful in working with the candidate to avoid plagiarism while monitoring the process of work, then the teacher **must** sign the *Declaration of authenticity* and attach a note to this effect to the declaration at submission time.

Non-school candidates are to complete the *Declaration of authenticity* in the presence of an authorised witness. A list of authorised witnesses can be found on the <u>Authorised Witnesses for Statutory Declarations page (https://www.wa.gov.au/government/publications/authorised-witnesses-statutory-declarations) on the WA.gov.au website.</u>

## 6.2. Applying a consistent standard

Markers apply a consistent standard to assess the candidate's work. This requires:

- a marking key for the practical (portfolio) examination
- attendance at a marker training meeting prior to the commencement of marking
- trial marking of work to ensure a common understanding of the marking key
- that exemplar materials are selected by the Chief Marker and used to exemplify the standards
- the practical (portfolio) examination submission to be marked independently by at least two markers who then reconcile any differences between them
- the Chief Marker to ensure consistency throughout the marking by monitoring the marking process and reconciling significant differences where necessary
- the Chief Marker to refer the candidate to the Breach of Examination Rules Committee if they consider that the practical (portfolio) examination submitted is not the candidate's work completed through the duration of the units being examined
- that each practical (portfolio) examination submission not incorporate marks or teacher comments
- that each practical (portfolio) examination submission be marked by specialists in the designated contexts
- markers to **not** adjust marks according to alleged plagiarism
- markers to assess the candidate's work against the criteria in the marking key.

## 7. Criteria for marking

The Chief Marker sets the standards based strictly on the criteria set down in the practical (portfolio) examination marking key.

A numerical scale is used to assess the candidate's practical (portfolio) examination submission against the following criteria:

- statement of intent
- evidence of research
- development of concepts and ideas
- production documents
- visual evidence of production
- evaluation.

## 8. Plagiarism, appropriation and attribution

#### Plagiarism means:

- submitting work that another person has completed as one's own work
- downloading work, graphics or other material from the internet and presenting it as one's own without acknowledgement, e.g. using generative artificial intelligence (AI) tools
- submitting work that another person, such as a parent, teacher or professional expert, has contributed to substantially. While the practice of having others significantly assist in the preparation of submitted work may be a form of plagiarism, it may also be a form of fraud when it involves significant and/or improper third-party assistance.

Candidates may use appropriation provided that they have appropriately referenced and acknowledged the source and designer below the image as they appear within the portfolio.

Candidates whose work uses appropriated or reworked designs must attribute all borrowed ideas and images, including those that have been generated using AI tools. The name of the work, designer and/or AI tool must be clearly cited to identify the source, below the existing design, image or product that has been presented as the candidate's work within the portfolio.

## Appropriation means:

[T]o take possession of something. Appropriation artists deliberately copy images to take possession of them in their art and re-present the significance of the image or images to achieve a new level of meaning and innuendo, including irony.

These artists are not stealing or plagiarising. They are not passing off the appropriated images as their own. The appropriation artist recontextualises (puts into a new context) these particular images in order to create a completely new work, independent of the original source.

Appropriation artists hope the viewer will immediately recognise the images they have copied, and depend on the viewer's ability to bring all of their original associations with the image to the artist's new context in order to enhance the meaning of the work. Irrespective of the work, this deliberate 'borrowing' of an image for this new context helps the artist comment on the image's/images' original meaning and the viewer's association with the original image/s or the real thing.

[By kind permission Beth S. Gersh-Nešić, Ph.D., Director, New York Arts Exchange]

#### Attribution means:

[S]omething that is related to a particular possessor, such as a quality or characteristic; an attribute; the act of attributing, especially the act of establishing a particular person as the creator of a work of art.

[© 2011 Houghton Mifflin Harcourt Publishing Company. Adapted and reproduced by permission from *The American Heritage Dictionary of the English Language* (5th ed.)]

The Authority has a specific process for dealing with alleged plagiarism in an examination. See Section 6 of the <u>WACE Manual</u> (http://www.scsa.wa.edu.au/publications/wace-manual) on the Authority website.

#### 9. Breach of examination rules

A breach of examination rules referral will be issued if the practical (portfolio) examination submitted by the candidate:

- is not in accordance with the signed Declaration of authenticity
- incorporates marks or teacher comments
- identifies the candidate's name or any school and/or teacher
- is plagiarised
- was created using generative artificial intelligence tools which are not acknowledged and/or referenced
- does not include a signed *Declaration of authenticity*.

A breach of one of these rules can result in cancellation of part or all of the practical raw examination mark.

An alleged breach of examination rules will be referred to the Breach of Examination Rules Committee. Further information related to examination breaches can be found on the <u>Rules of conduct for Year 12 ATAR course examinations page</u>

(https://seniorsecondary.scsa.wa.edu.au/assessment/examinations/rules-of-conduct-for-atar-course-examinations) on the Authority website and in Part II of the *Year 12 Information Handbook*, published in July.

#### 10. Predicted marks

At the time of submitting the portfolios, schools are required to submit a predicted mark out of 100 for the practical (portfolio) examination submission. If there is a large difference between the predicted mark and the examination mark, the practical (portfolio) examination submission will be reviewed by the Chief Marker. This process assists in ensuring the integrity of the practical (portfolio) examination submission marks.

The predicted mark is the school's mark assigned to the practical (portfolio) examination submission only. The teacher will provide the predicted school mark on the *Predicted scores data entry form* (Appendix 2).

## 11. Submission requirements

The practical (portfolio) examination submission **must** document the development of a completed design process from the initial design brief through to the finished product and show the quality of the finished product.

Candidates **must** submit their practical (portfolio) examination through the school. A candidate's practical (portfolio) examination submission **must**:

- be on a USB drive
- use the A5 clear plastic document wallet, with WASN label attached in the right-hand front corner, both provided by the Authority, to enclose the USB drive
- have the candidate's WASN label attached to the USB drive or have the candidate's WASN written in permanent marker on the USB drive
- include a folder on the USB named with the candidate's WASN and context. That folder must contain only one portable document format (PDF) file (not Microsoft® Word or PowerPoint®), saved as [WASN]-context.pdf
- have only one practical (portfolio) examination submission per USB drive for each candidate
- have the candidate's WASN on the first/cover page of the PDF file when opened on the USB drive
- have a contents page after the first page
- have all pages numbered sequentially
- have the WASN on each page in the bottom right-hand corner
- have the WASN on pages that are scanned
- be no more than 40 pages
- have the correct orientation of each page when viewed on-screen for ease of marking
- use black text and at least 11-point font size for all writing and annotations with minimal use of italics
- be presented on a white or light-coloured background
- comprise original drawings and/or composites using scanned images, photographs or digital copies
- have 300 dpi resolution images for best quality
- have three-dimensional objects photographed or otherwise represented to clearly demonstrate the details and contribution to the design.

A candidate's practical (portfolio) examination submission must **not** contain any:

- information that identifies the candidate (by name and/or photograph) or the candidate's school. This includes names of persons associated with the candidate or the candidate's school
- evidence of previous marking or teacher annotations/comments.

### 11.1. USB drive requirements

The practical (portfolio) submission on the USB drive submission must:

- be a PDF file capable of being opened in a web browser, e.g. Internet Explorer®, Microsoft Edge®, Google Chrome® or Safari®
- be compressed if the files are large, to make opening them easier for the markers.

Good quality USB drives **must** be used for the practical (portfolio) examination submissions. All USB drives must be formatted as **exFAT** (Extended File Allocation Table). The USB drive must be formatted before uploading the practical (portfolio) examination submission onto it. Ensuring the USB drive is formatted as **exFAT** will assist the marking process if there is a problem with the USB drive, and with locating the submission if it becomes fragmented. More information may be obtained from the <a href="https://www.howtogeek.com/235596/whats-the-difference-between-fat32-exfat-and-ntfs/">https://www.howtogeek.com/235596/whats-the-difference-between-fat32-exfat-and-ntfs/</a>).

It is the teacher's responsibility to ensure that the USB drive used works, is formatted correctly as **exFAT**, has been checked for viruses before submitting, and does not contain any other material except the practical (portfolio) examination submission. Markers will **not** view or mark any additional material on the USB drive.

Note: candidates are encouraged to provide a second, backup USB drive with a copy of their portfolio. If this option is chosen, then the second USB drive **must** be clearly labelled 'backup copy'. This backup copy will only be accessed should the original be faulty.

#### 11.2. Contents of the practical (portfolio) examination submission

The practical (portfolio) examination submission should contain:

- 1. A cover page (one page maximum)
- 2. A contents page (one page maximum)
- 3. A statement of intent (recommended maximum of two pages)

The statement of intent should identify a problem or situation to be solved and include:

- an analysis of the design problem/situation to be solved
- client requirements
- considerations and constraints
- design fundamentals:
  - aesthetics
  - environmental impact and considerations
  - function
  - sustainability issues
  - safety
  - ergonomics
  - cost
  - anthropometric data
- performance criteria.
- 4. Evidence of research (recommended maximum of four pages)

The evidence of research is an analysis of all research relevant to the client's needs, undertaken to develop a solution to the problem/situation.

Images to solve the problem/situation may be included.

5. Development of concepts and ideas (recommended maximum of ten pages)

The development of concepts and ideas should include:

- rapid concept sketches (i.e. 2D and/or 3D illustrations) exploring whole and parts of products, annotated using technical terminology to demonstrate
  - a clear relationship between research and concept development, linked to the statement of intent
  - ongoing client consultation
- design development, i.e. the generation of four design ideas (using 2D and/or 3D illustrations) to build upon the rapid concept sketches, to show
  - progress towards a solution
  - evidence of ongoing client consultation with justification of ideas using the statement of intent
- justification of the final design, using the statement of intent and client consultation
  - justification of the selection of materials against comprehensive design needs as well as the functional and aesthetic properties of materials.
- 6. Production documents (recommended maximum of seven pages)

The production documents should include:

- drawings for the final product
  - 3D rendered presentation drawing/s (recommended maximum of one page)
  - 2D working drawings with relevant annotation, technical information and dimensions/measurements (recommended maximum of three pages)
    - Metal/Wood: a complete 2D dimensioned drawing (third-angle projection) and construction details, e.g. joint details
    - Textiles: a design specification sheet, including 2D working drawings with measurements and construction details, e.g. seam types
- materials
  - detailed and accurate materials list/s for the product, including all components and consumables with cost calculations (recommended maximum of one page)
- planning
  - sequential, logical and appropriate production plan (recommended maximum of two pages)
     that is accurately timed and includes details of equipment and safety procedures.
- 7. Visual evidence of production (recommended maximum of three pages)

The evidence of production should include annotated photographic evidence detailing the production process and showing all views and features of the final product, e.g. embellishments, inlays, decorative technique, joining methods.

8. Evaluation (recommended maximum of two pages)

The evaluation should include an:

- evaluation of the design and production processes
- explanation of the problems identified and the solutions proposed or applied
- evaluation of the product against the statement of intent and performance criteria.

Note: any references to and extracts from another person's ideas, works or images in the practical examination submission are to be clearly cited below the reference/extract, as they appear within the portfolio, to identify the source.

## 12. Documentation of thinking and working practices

Records of the thinking and working practices that led to the development of a candidate's practical (portfolio) examination submission must be kept by the school. The Authority may, after the examination process, call upon the documentation to substantiate the authenticity of a candidate's submitted work. Copies of all documents included with the submission, e.g. the *Declaration of authenticity*, must also be kept by the school.

## 13. Declaration of authenticity

Every candidate is required to complete and sign a *Declaration of authenticity* and submit it with the Materials Design and Technology practical (portfolio) examination submission.

The completed *Declaration of authenticity* must:

- not be attached to the USB drive with the practical (portfolio) examination submission
- be placed in the folder provided in the practical ATAR course submission information sent to schools/providers during Term 3.

## 14. Return/collection of practical (portfolio) examination submissions

Practical (portfolio) examination submissions **must** be collected by metropolitan schools between **8.30 am** and **4.00 pm** on **Wednesday, 15 October 2025**. Submissions not collected by metropolitan schools will be destroyed in accordance with the Western Australian Department of Education's retention and disposal schedule.

Country schools' practical (portfolio) examination submissions will be returned by the Authority.

## 15. Key dates

### Thursday, 24 July 2025

Last date for withdrawal of enrolment from ATAR courses with a practical examination component

### Tuesday, 16 September 2025

Practical (portfolio) examination submissions information received by schools/providers

#### Tuesday, 23 September 2025

Practical (portfolio) examination submissions delivered to the designated venue between 8.30 am and 4.00 pm

Note: practical (portfolio) examination submissions received after the published time and date cannot be accepted.

### Wednesday, 15 October 2025

Practical (portfolio) examination submissions collected by schools from the designated venue between  $8.30~\mathrm{am}$  and  $4.00~\mathrm{pm}$ 

## **Appendix 1: Declaration of authenticity**





# ATAR course practical (performance/portfolio/production) examinations 2025 Declaration of authenticity

	ATAR course	e: (circle one course)	DAN	DES	DRA	MDT	MPA	VAR	MUS (Composition Portfolio examination only)
F	This form must be completed by candidates enrolled to sit an examination for the above courses only. Failure to submit a completed <i>Declaration of authenticity</i> could result in a referral to the Breach of Examination Rules Committee.								
C	Candidate de	eclaration							
1	lame:						Scho	ol code	e:
٧	VA student nu	ımber:							
	I have com being exan none of the company e form. This none of the examinatio all docume I will submi	e work performed or subr except those acknowledgi includes the use of gene e work in this examination	ined in mitted wed, if a rative a n was s	this su was wor ppropri artificial submitte	rked or ate, in intellig	on thro direction the reference (A external	ugh the ly by a erences AI) tool: l asses	e durati teache s or ack s sment i	on of the ATAR course r or any other person or knowledgements section o
S	Signature:						Date	:	
	Oringinal on	d toocher declaration	s						
F	rincipai and	d teacher declaration	_						
		to be signed by the scho		cipal ar	nd the d	candida	te's tea	acher.	
T	declare that, to has been declare that, to has been declare that, to has been declared that has not been has been declared the has been kept and the has b	to be signed by the school to the best of my knowled completed by the candidateveloped mainly in school worked on directly by work has been formally	dge, the dge, the ate thro ol time, a teach referen assess ractical	e work ughout , and a ner or a need or sment i	perform the du ny work any othe acknow in any o	ned or ration of away er person velocities of the control of the c	submittof the Afrom so from so on or co d (inclu- burse of ments,	ted: ATAR co chool w ompan iding th or progra	vas regularly monitored y and, if he use of am copy of this form has
T	declare that, to has been declare that, to has been declare that, to has been declared that has not been has been declared the has been kept and the has b	to be signed by the school to the best of my knowled completed by the candidateveloped mainly in school worked on directly by work has been formally Al tools) en submitted for external checked and meets the plas an official school reco	dge, the dge, the ate thro ol time a teach referen assess ractical rd USB de	e work ughout , and a ner or a need or sment i	perform the du ny work any othe acknow in any o	ned or ration of away er person velocities of the control of the c	submittof the Afrom so from so on or co d (inclu- burse of ments,	ted: ATAR cochool woompan Iding the or programmed and a	vas regularly monitored y and, if he use of am copy of this form has

Signature Date

## **Appendix 2: Predicted scores data entry form**

				ulum and Standards				
_		Materials De	esign and Technology practi	cal (portfolio) examinati	on 2025	- Predic	cted scores data entry fo	rm
Scho	ol name			School code			Pa	ge
Portfolio not submitted	DoA submitted	Context	Family name	Given name			WA student number	Predicted score (/100)
	_							
	_							
			.4					
INST	RUCTIO	NIC.	Total number of candidates enrolled in examination	Number of portfolios su Number of DoAs subm			Number of portfolios not submitted	
1. This form will be scanned. Do <b>not</b> fold or write outside the boxes. Use blue or black pen. 2. Shade the Portfolio <b>not</b> submitted box for each candidate who has <b>not</b> submitted a portfolio.  Leave the box blank if the candidate has submitted a portfolio. 3. All candidates must submit a completed <i>Declaration of Authenticity</i> (DoA) form. After checking that each candidate has correctly completed their DoA form, shade the DoA submitted box. 4. Place a predicted score out of 100 for each candidate in the column provided. 5. Portfolios must be delivered by the school to the designated location between 8.30 am and 4.00 pm on <b>Tuesday, 23 September 2025</b> . 6. This form must be placed in the folder provided and submitted with the practical portfolios.  Telephone:								
53	88353150	3		Shade boxes like this:	Sig	nature:		

## **Appendix 3: Submission checklist**



## Government of Western Australia School Curriculum and Standards Authority



## Materials Design and Technology submission checklist

WA stud	ent number:				
Candidate is to complete this checklist and place it in their A5 clear plastic document wallet. Each box must be ticked to confirm this submission conforms with the following:					
Candid	ate to complete				
	The submission has been placed in the A5 clear plastic document wallet provided.				
	The candidate's WA student number label has been placed on the USB drive.				
	Submitted materials (printed and digital) do <b>not</b> contain anything that identifies the candidate or any person, school, club or achievements.				
	The submission includes a folder named with the candidate's WA student number and context.				
	The submitted file is in a portable document format (PDF), saved as [WASN]-context.pdf.				
	The submission is not plagiarised.				
	Any use of generative artificial intelligence tools in this submission is acknowledged and/or referenced.				
	A completed, signed and dated copy of the <i>Declaration of authenticity</i> is included in the folder provided by the School Curriculum and Standards Authority (the Authority). It is <b>not</b> attached to or included in the portfolio.				
	The submission is in accordance with the signed <i>Declaration of authenticity</i> form.				
	The submission does not contain any evidence of previous marking or teacher annotations/comments.				
	This submission has been delivered to the teacher by the date and time they specified.				



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Teacher to complete					
	A <i>Declaration of authenticity</i> form is completed, signed and submitted for this candidate and placed in the folder provided.				
	A predicted score has been entered on the <i>Predicted scores data entry form</i> for this candidate and this form has been placed in the folder provided.				
	This submission has been delivered to the teacher by the date and time they specified.				