



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

2023

#### **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 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 both of these examinations. Candidates 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 their Western Australian Certificate of Education (WACE).

Schools are required to submit their candidates' practical (portfolio) submissions to the designated venue between **8.30 am** and **4.00 pm** on **Tuesday, 19 September 2023**.

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%

#### 1. Reporting achievement

Teachers are responsible for ensuring the practical (portfolio) examination requirements are met and making sure 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/circular-ecirculars/">https://www.scsa.wa.edu.au/publications/circular-ecirculars/</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 WACE Manual (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:

- course mark out of 100 (weighted for each component)
- mark out of 100 for the written component
- 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. 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.

If a candidate misses or is not able to complete an examination session 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 examination centres and the Authority website (from September 2023) at <a href="http://www.scsa.wa.edu.au/forms/forms">http://www.scsa.wa.edu.au/forms/forms</a>. **Applications that relate to the practical component must be submitted immediately following the practical examination**.

Only one form should be used to cover all 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 Tuesday**, **21 November 2023**.

A candidate with an injury or illness existing at the start of Term 3 is not entitled to apply for sickness/misadventure consideration on the basis of the existing injury or illness.

#### 4. 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.

#### 5. 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).

#### 5.1 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* (a legal document), witnessed by the supervising teacher and the 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
- 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 that 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>

#### 5.2 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 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 will 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.

#### 6. 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.

#### 7. 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
- 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. The name of the work and designer are to be clearly cited to identify the source, below the existing design, image or product that has been used as they appear 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 (http://www.scsa.wa.edu.au/publications/wace-manual)</u>, on the Authority website.

#### 8. 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, school and/or teacher
- is plagiarised
- 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 is referred to the Breach of Examination Rules Committee. Further information related to examination breaches can be found on the Rules of conduct for Year 12 ATAR course examinations page (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.

#### 9. 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).

#### 10. Submission requirements

Candidates **must** submit their practical (portfolio) examination through the school. A candidate's practical (portfolio) examination submission **must** be on a USB and include:

- a folder labelled with the candidate's WASN and context
- the submitted file in the Portable Document Format (PDF).

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's school
- evidence of previous marking or teacher annotations/comments.

An A5 clear plastic document wallet with the candidate's WASN label attached will be provided by the Authority for each candidate for the practical (portfolio) examination submission. The USB must be placed in the A5 clear plastic document wallet. The candidate's WASN label must be placed on the USB. A permanent felt-tipped pen must be used to write the WASN on the USB if the labels are too large, or attach the label to the USB using string.

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.

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

The practical (portfolio) examination submission must:

- use the A5 clear plastic document wallet provided by the Authority
- have a label with the candidate's WASN attached to the USB, or written in felt tipped pen
- have only one practical (portfolio) examination submission per USB for each candidate
- have only one PDF file on the USB, i.e. the submission should not be broken into parts
- not be a Microsoft® Word document or PowerPoint® slides
- have the PDF file on the USB titled with the candidate's WASN and context
- have the candidate's WASN on the first page of the PDF file when opened on the USB
- 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 in one PDF file only
- 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 in the practical (portfolio) examination submission

- have minimal use of italics in all writing and annotations
- be presented on a white or light-coloured background
- comprise original drawings and/or composites using scanned images, photographs or digital copies
- ensure that images have a 300 dpi resolution for best quality
- have three-dimensional objects photographed or otherwise represented to clearly demonstrate the details and contribution to the design.

#### 10.1 USB requirements

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

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

It is the teacher's responsibility to ensure that the USB used works, is formatted correctly as an **exFAT** file, 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.

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

#### 10.2 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:

- a design proposal
- client profile/target audience
- design fundamentals, e.g.
  - aesthetics
  - environmental impact and considerations
  - function
  - sustainability issues
  - safety
  - ergonomics
  - cost
  - anthropometric data
- design considerations and constraints
- performance criteria.

4. Evidence of research (recommended maximum of four pages)

Evidence of research is a summary analysis of relevant research undertaken and should include:

- client needs or market survey
- existing products
- design inspirations and influences
- materials with justification of suitability for purpose.

Images to solve the problem or situation may also be included.

All references and extracts (i.e. another person's ideas, works or images) used in the investigation and development of design concepts are to be clearly cited below the reference, as they appear within the portfolio, to identify the source.

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

The development of concepts and ideas should include:

- rapid concept sketches, annotated using technical terminology, with
  - utilisation of 2D and/or 3D illustrations
  - evidence of a clear relationship between research and concept development, through images and annotations linked to the statement of intent
  - ongoing client consultation
- design development, i.e. the development of four designs reflecting a progression of ideas towards a solution, with
  - utilisation of 2D and/or 3D illustrations
  - evidence of a clear relationship between research and concept development, through images and annotations using the statement of intent
  - ongoing client consultation
- justification of the final design, using the statement of intent and client consultation.
- 6. Production documents (recommended maximum of seven pages)

The production documents should include:

- drawings
  - 3D rendered presentation drawing/s (recommended maximum of one page)
  - 2D working drawings with dimensions and annotations (recommended maximum of three pages)
    - Metal/Wood: a complete 2D dimensioned drawing (3rd angle projection) and construction details, e.g. joint details
    - Textiles: design specification sheet, including 2D working drawings with measurements and construction details, e.g. seam types
- materials
  - detailed materials list/s and costing of the product, including individual components and consumables required for the production of the product (recommended maximum of one page)
- planning
  - sequential, logical and appropriate production plan (recommended maximum of two pages).

7. Visual evidence of production (recommended maximum of three pages)

The evidence of production should include:

- clear photographic evidence showing all views of the final product
- clear annotated photographic evidence showing all features of the final product, e.g. embellishments, inlays, decorative technique, joining methods.
- 8. Evaluation (recommended maximum of two pages)

The finished product and final evaluation should include an:

- evaluation of the design and production process
- explanation of the problems identified, and the solutions proposed or applied
- evaluation of the product against the statement of intent.

Note: references to extracts (i.e. source of another person's ideas, works or images) used in the development of the design should be clearly cited below the images, as they appear within the portfolio, to identify the source.

#### 11. 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 submission, i.e. the *Declaration of authenticity*, must also be kept by the school.

#### 12. 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 with the practical (portfolio) examination submission. The completed declaration **must** be placed in the folder provided in the practical ATAR course submission information sent to schools/providers during Term 3.

#### 13. 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, 11 October 2023**. Submissions not collected by metropolitan schools will be destroyed in accordance with the Department of Education's retention and disposal schedule.

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

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

#### 14. Key dates

#### Thursday, 20 July 2023

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

#### Tuesday, 12 September 2023

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

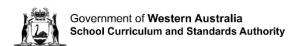
#### Tuesday, 19 September 2023

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

#### Wednesday, 11 October 2023

Practical (portfolio) examination submissions collected by schools from the designated venue between 8.30 am and 4.00 pm

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





## ATAR course practical (performance/portfolio/production) examinations 2023 Declaration of authenticity

ATAR cours	DAN	DES	DRA	MDT	MPA	VAR	MUS (Composition Portfolio examination only)	
Failure to sub	st be completed by can omit a completed <i>Declar</i> Rules Committee.							
Candidate (	declaration							
Name:	Name: School code:							
WA student r	number:							
As a candidate for the practical (performance/portfolio/production) examination, I declare that:  I have completed all the work contained in this submission through the duration of the ATAR course being examined  none of the work performed or submitted was worked on directly by a teacher or any other person or company except those acknowledged, if appropriate, in the references or acknowledgements section or form  none of the work in this examination was submitted for external assessment in any other ATAR course examination  all documentation submitted is accurate  I will submit this declaration in accordance with the instructions in the course practical examination requirements document.								
Signature:						Date	e:	
Principal aı	nd teacher declaration	ons						
	is to be signed by the so		rincipal	and th	e cand	idate's	teache	r.
<ul> <li>I declare that, to the best of my knowledge, the work performed or submitted:</li> <li>has been completed by the candidate throughout the duration of the ATAR course being examined</li> <li>has been developed mainly in school time, and any work away from school was regularly monitored</li> <li>has not been worked on directly by a teacher or any other person or company and, if applicable, work has been formally referenced or acknowledged</li> <li>has not been submitted for external assessment in any other course or program</li> <li>has been checked, meets the practical examination requirements and a copy of this form has been kept as an official school record</li> <li>is in working order, i.e. appropriate USBs, DVDs and CDs are formatted correctly.</li> </ul>								
	Teac	her					ı	Principal
Name:								
Signature:								
Date:								
An authorised witnesses se	e <u>https://www.wa.gov.ar</u> witness	u/govei	rnment/	/publica	ations/a	uthoris	ed-witr	on. For a list of authorised nesses-statutory-declarations.
Address: Date: Date:								
ignature Date								

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

School Curriculum and Standards Authority									
Materials Design and Technology practic School name				cal (portfolio) examinati School code	on 202	Predicted scores data entry form Page 1			
Portfolio NOT submitted	DoA submitted	Context	Family name	Given name			WA student number Predicted score (/100)		
INSTRUCTIONS:  Total number of candidates enrolled in examination				Number of portfolios submitted  Number of DoAs submitted			Number of portfolios not submitted  Number of DoAs not submitted		
2. Sha Lea 3. All eac 4. Pla 5. Por on	ade the Po candidate ch candida ce a pred tfolios mu Tuesday,	ortfolio NOT submitted but blank if the candidate is must submit a compleate has correctly compleate has correctly compleated score out of 100 for its be delivered by the subsequent 19 September 2023.	old or write outside the boxes. Use bloox for each candidate who has NOT has submitted a portfolio. Seted Declaration of Authenticity (DoA) sted their DoA form, shade the DoA store each candidate in the column provicthool to the designated location between provided and submitted with the provided wi	submitted a portfolio.  form. After checking that ubmitted box. ded. een 8.30 am and 4.00 pm	Teacher details  Name:  Email:  Telephone:				
32	7819366	5		Shade boxes like this:	Si	Signature:			