

# EXTERNAL ASSESSMENT SPECIFICATIONS

## TECHNICAL GRAPHICS (TEG3 | 5 | 20)

External Assessment Specifications inform the development of external written exams. The primary audience for this document is the course Setting Examiner and Exam Critics. It may also be of use to teachers and students.

These specifications must be read in conjunction with the Course Document.

The format of the external assessment is:

- 2-hour written examination
- design folio

The criteria to be externally assessed are:

### Written examination:

**Criterion 2:** Apply geometric knowledge and skills in interpreting and transferring drawings  
All aspects of Criterion 2 standards are examinable.

**Criterion 3:** Solve geometric problems  
All aspects of Criterion 3 standards are examinable.

### Design folio:

**Criterion 4:** Use standards and conventions in the production of sketches and drawings  
All aspects of Criterion 4 standards are examinable

**Criterion 5:** Present and communicate information  
All aspects of Criterion 5 standards are examinable

**Criterion 7:** Address a brief using the design process and research  
All aspects of Criterion 7 standards are examinable

# WRITTEN EXAMINATION STRUCTURE

The examination paper is divided into three sections, all three sections are in one booklet. A2 drawing paper will be provided for answer sheets.

The following specifications for each section are outlined in the table below:

- the distribution across the sections of:
  - criteria
  - course content
  - time and rating allocations
- number and type of items.

SECTION	A	B	C
<b>Criterion/Criteria</b> (See details in the Assessment section)	2 and 3	2 and 3	2 and 3
<b>Elements</b>	All elements	All elements	All elements
<b>Course Coverage</b>	Module I	Module I	Module I
<b>Number of items</b>	Four (4). Candidates will respond to question/stimulus provided and answer using the A2 drawing paper.	Three (3). Candidates will respond to question/stimulus provided and answer using the A2 drawing paper.	Three (3). Candidates will respond to question/stimulus provided and answer using the A2 drawing paper.
<b>Compulsory or optional</b>	All items are compulsory.	Choice of three (3) questions, candidates must answer one (1) item.	Choice of three (3) questions, candidates must answer one (1) item.
<b>Item type(s)</b> (See <b>Attachment I</b> for definitions and exemplars)	Candidates are required to use correct line-work and presentation, and are encouraged to include freehand sketches, where necessary, to show the development of ideas in the solution of problems. Construction must be shown.	Candidates are required to use correct line-work and presentation, and are encouraged to include freehand sketches, where necessary, to show the development of ideas in the solution of problems. Construction must be shown.	Candidates are required to use correct line-work and presentation, and are encouraged to include freehand sketches, where necessary, to show the development of ideas in the solution of problems. Construction must be shown.
<b>Suggested time allocation</b>	60 minutes	30 minutes	30 minutes
<b>Mark / rating allocation</b> (weighting must be specified)	Extended ratings of A+, A, A-, B, B, B-, C+, C, C-, t+, t, t-, or z	Criterion 2 and 3 weighted 4:1 respectively and are assessed using extended ratings of A+, A, A-, B, B, B-, C+, C, C-, t+, t, t-, or z	Criterion 2 and 3 weighted 1:4 respectively and are assessed using extended ratings of A+, A, A-, B, B, B-, C+, C, C-, t+, t, t-, or z

## WRITTEN EXAMINATION CONTENT

A representative sample, encompassing a large proportion of the targeted course content areas, tests the standard of skills, knowledge and understanding of a candidate.

Where a part requires responses to more than one (1) item, the relative weighting of the items is explicitly stated as having equal value.

The relative weighting of items is indicated by:

- The relative allocation of marks, and
- Space for responses.

## ASSESSMENT

A set of solutions or a marking tool will be developed by the Setting Examiner, provided to markers at the marking meeting that follows the external written examination; and will be available from TASC in the following year.

The external assessment must include items that, separately or together, give opportunities to demonstrate the standards from rating C to rating A.

Final results will be awarded as a rating of A, B, C, t or z in the above criteria. These ratings are used in determining the final award according to the algorithm in the course document.

## WRITTEN EXAMINATION ITEM TYPES

In these specifications, the term 'item' is defined as an individual task to be undertaken by candidates. The task may be divided into several parts.

Item types for this examination can be categorised in terms of:

### ITEM TYPES AND DEFINITIONS

#### *Line work and presentation format*

- Candidates are required to use correct line-work and presentation, and are encouraged to include freehand sketches, where necessary, to show the development of ideas in the solution of problems. Construction must be shown.

# WRITTEN EXAMINATION CHECKLIST

In these specifications, the term 'item' is defined as an individual task to be undertaken by candidates. The task may be divided into several parts.

## SECTION A:

- Assesses all examinable aspects of Criteria 2 and 3
- Items give opportunities to demonstrate standards from rating C to rating A on each criterion
- Includes a representative sample of course content from Module 1
- Contains 4 items – all compulsory
- The items may incorporate a stimulus
- Requires line work and presentation style response

## SECTION B:

- Assesses all examinable aspects of Criteria 2 and 3
- Items give opportunities to demonstrate standards from rating C to rating A on each criterion
- Includes a representative sample of course content from Module 1
- Contains 3 items – candidates choose 1 only
- The items may incorporate a stimulus
- Requires line work and presentation style response

## SECTION C:

- Assesses all examinable aspects of Criteria 2 and 3
- Items give opportunities to demonstrate standards from rating C to rating A on each criterion
- Includes a representative sample of course content from Module 1
- Contains 3 items – candidates choose 1 only
- The items may incorporate a stimulus
- Requires line work and presentation style response

# DESIGN FOLIO GUIDELINES

These guidelines provide students, teachers and markers with details about what students have to do for the display that forms part of the external assessment for this subject.

This document does not repeat essential information found in other documents and must be read in the context of:

THE COURSE DOCUMENT (<https://www.tasc.tas.gov.au/students/courses/technologies/teg315115-3/>)

The [TASC Frequently Asked Questions – Externally assessed folios](#), provides general information for all students and teachers about externally assessed folios, including a how-to guide for submitting folios and a link to the TASC guide to Authenticity and Academic Integrity.

The course Assessment Report addresses issues, strengths and weaknesses about the assessment of the previous year's display and should be read in conjunction with the guideline.

The final folio must be submitted by the student to their teacher for external assessment.

Due dates for folio submission are available from the [TASC website](#).

The teacher cannot extend this published final "due to teacher date" however they may set an earlier deadline for the purpose of internal assessment.

## ADVICE TO STUDENTS

You are required to undertake a major inquiry in an area(s) of interest demonstrating the design process and knowledge of the chosen industry or discipline.

The folio requires a link with a relevant technical graphics industry or discipline context. You will undertake a problem-based design solution in liaison with an industry professional (e.g. an architect, engineer, surveyor, fabricator or manufacturer). You will be required to contextualise your learning within a relevant industry or discipline when devising the design brief and undertaking the requirements of the Design folio.

Your study will be futures-oriented in that it will focus on the knowledge, understanding and skills required in the 21<sup>st</sup> century.

You must present practical work (drawings) accompanied by a design folio for external assessment. The practical work and folio will be assessed on criteria 4, 5 and 7.

The folio of work will be assessed against:

**Criterion 4:** Use standards and conventions in the production of sketched and drawings

**Criterion 5:** Present and communicate information

**Criterion 7:** Address a brief using the design process and research

If you do not submit a folio you will receive a 'Z' externally for Criteria 4, 5 and 7. If you do not submit a folio the highest award you can achieve in this course is a Preliminary Achievement.

## REQUIREMENTS

You must include documentation to satisfy the design process as detailed in the Design Process and Principles section of the course document.

In completing the folio you must meet the following requirements:

- a design brief – a clear, concise but full description of the nature and limitations of the major inquiry
- a description of the evolution of the design process you used
- It must follow a structured design process, and include:
  - research and investigation
  - preliminary design sketches/ideas (working drawings)
  - the practical techniques used to complete the investigation
  - possible solutions
  - preferred solutions
  - evaluation of its success in meeting the brief
- a range of drawing and presentation techniques.

**Please Note:** The folio should contain between 25% to 50% output from Computer – Aided Drafting and Design (CADD) systems.

## INFORMATION FOR TEACHERS

1. The contacts that learners make with industry and professional bodies/people will be pre-approved and overseen by you.
2. You should allow approx. 50 hours for the completion of the folio.
3. All work must be clearly identified with the student's **TASC ID only**.
4. Confirmation that the design folio was submitted by the due date and verification that it is the students own work is to be provided to TASC through TRACS.