

Industrial Graphics Skills 2019 v1.0

Sample assessment instrument

September 2018

Practical demonstration — Building and construction drafting

Information for teachers

This sample has been compiled by the QCAA to help and support teachers in planning and developing assessment instruments for individual school settings.

Schools develop internal assessments for each Applied subject, based on the learning and assessment described in the approved study plan.

Purpose of the practical demonstration

This technique assesses the practical application of a specific set of teacher-identified drawing skills and procedures. Responses are completed individually in a set timeframe.

Further information about the specifications for this assessment technique can be found in the Assessment techniques section of the Industrial Graphics Skills syllabus.

Assessment dimensions

This assessment instrument is used to determine student achievement in the following dimensions:

- Knowing and understanding
- Analysing and evaluating
- Producing and evaluating.

Not every objective from each dimension needs to be assessed.

Subject	Industrial Graphics Skills
Technique	Practical demonstration — Building and construction drafting
Unit number and module number and name	Unit: 3 Module: 3. Building and construction drafting

Conditions	Units 3–4
Practical demonstration	Produce a cross-sectional view, site plan and basic building construction details for a new two-bedroom dwelling
Further information	
Duration (including class time)	4 weeks
Individual/group	Individual
Resources available	Access to: <ul style="list-style-type: none"> resources available in the Industrial Graphics Skills classroom stimulus drawings provided by the teacher computers and drafting software.

Context

As a class, you have been exploring graphical skills for building and construction drafting. Building and construction drafting refers to the drafting of sketches, working drawings and 3D representations that enable the construction of built environment structures such as new houses, extensions and renovations, landscape structures, sheds, bus shelters and roads. The drawings are used to communicate details of the built environment to professional and trade audiences and consumers. Building and construction drafting includes the production of technical drawings such as site plans, floor plans and elevations of domestic dwellings, level and detail survey plans, rendered architectural pictorials, as-constructed plans, engineering plans (including long-sections and cross-sections for civil works) and scaled models.

Task

Individually, produce sample drawings including a cross-sectional view, site plan and basic building construction details for a new two-bedroom dwelling under teacher directions.

To complete this task:

Select, apply and demonstrate fundamental drawing skills to complete the sample drawings, including:

- interpreting basic drawing information from building and construction drawings
- sketching internal features of a dwelling to collect information about room relationships
- communicating evidence of the completed sample drawings using annotations.

Checkpoints

- Term [X] Week [X]/[Date]: Receive feedback on draft sketches and initial cross-sectional and site plan drawings
- [Due date]: Submit all sample drawings

Authentication strategies

Your teacher will use ways to check that the work you are assessed on is your own work.

- Discuss with your teacher or provide documentation of your progress at each checkpoint.
- Your teacher will observe you completing work in class.
- Submit the declaration of authenticity.
- Your results may be cross-marked by a teacher from another class.

Stimulus

Stimulus drawings will be provided by the teacher, including:

- site plan drawing
- cross-sectional views
- construction details.

Instrument-specific standards matrix

	Standard A	Standard B	Standard C	Standard D	Standard E
Knowing and understanding	<p>The student work has the following characteristics:</p> <ul style="list-style-type: none"> • consistent and proficient demonstration of fundamental drawing skills • informed and accurate interpretation of drawings and technical information. 	<p>The student work has the following characteristics:</p> <ul style="list-style-type: none"> • effective demonstration of fundamental drawing skills • informed interpretation of drawings and technical information. 	<p>The student work has the following characteristics:</p> <ul style="list-style-type: none"> • demonstration of fundamental drawing skills • interpretation of drawings and technical information. 	<p>The student work has the following characteristics:</p> <ul style="list-style-type: none"> • partial demonstration of aspects of fundamental drawing skills • statements about drawings and technical information. 	<p>The student work has the following characteristics:</p> <ul style="list-style-type: none"> • minimal demonstration of aspects of fundamental drawing skills • inconsistent statements of drawings and technical information.
	Analysing and applying	<p>The student work has the following characteristics:</p> <ul style="list-style-type: none"> • discerning selection and proficient application of drawing skills and procedures in drafting tasks • coherent and succinct use of language conventions and features to communicate for particular purposes. 	<p>The student work has the following characteristics:</p> <ul style="list-style-type: none"> • relevant selection and purposeful application of drawing skills and procedures in drafting tasks • effective use of language conventions and features to communicate for particular purposes. 	<p>The student work has the following characteristics:</p> <ul style="list-style-type: none"> • selection and application of drawing skills and procedures in drafting tasks • use of language conventions and features to communicate for particular purposes. 	<p>The student work has the following characteristics:</p> <ul style="list-style-type: none"> • partial application of aspects of drawing skills and procedures in drafting tasks • vague use of language conventions and features to somewhat communicate.

	Standard A	Standard B	Standard C	Standard D	Standard E
Producing and evaluating	The student work has the following characteristics:	The student work has the following characteristics:	The student work has the following characteristics:	The student work has the following characteristics:	The student work has the following characteristics:
	<ul style="list-style-type: none"> • proficient creation of technical drawings that meet industry requirements. 	<ul style="list-style-type: none"> • methodical creation of technical drawings that meet industry requirements with minor variations. 	<ul style="list-style-type: none"> • creation of technical drawings from industry requirements. 	<ul style="list-style-type: none"> • creation of incomplete technical drawings with obvious variation from industry requirements. 	<ul style="list-style-type: none"> • creation of aspects of technical drawings.