Industrial Graphics

Sample E — study plan

January 2011

Queensland Government
Queensland Studies Authority

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Industrial Graphics

Sample study plan

Compiled by the Queensland Studies Authority

January 2011

A study plan is the school's plan of how the course will be delivered and assessed, based on the school's interpretation of the syllabus. The school's study plan must meet syllabus requirements, and indicate that there will be sufficient scope and depth of student learning to reflect the general objectives and meet the exit criteria and standards.

This sample demonstrates one approach, and should be used as a guide only to help teachers plan and develop school study plans.

Study Plan for an Authority-registered Study Area Specification

When completing this form online, do not worry if a table breaks over to a new page.

Use this form to provide information in relation to the school's plan for teaching and assessing this Authority-registered subject.

You should complete this study plan on the computer.

Please note:
This study plan can be accessed from the QSA's website (www.qsa.qld.edu.au).

Insert the course details into the second page of the school's study plan.

SECTION 1: School's statement

School:	College	School code:	
Specification:	**Manufacturing (**Industrial Graphics Studies**)**	Subject code:	6074
School contact:		Phone:	

This is: a new study plan ☒ a resubmission ☐ an amendment to an approved study plan ☐

(attach a note explaining nature of amendment)

This school intends to use: Approach B ☒ *(Four semesters — Non-VET)*

Approach C ☐ **6077** *(Two semesters — Cert 1 Furnishing, combined with two semesters of Industrial Technology Studies. A minimum of two and a maximum of four units of study selected from the Approach B Strands — Non-VET)*

Application for approval

The school has the resources necessary to implement this program of study and agrees to apply the *Principles of assessment* as outlined in the study area specification, and to follow the procedures and conditions set by the Queensland Studies Authority, for approval of the study plan and certification of student achievement. The timetabled school time devoted to the study and assessment of this subject is a minimum of 55 hours per semester**.**

Declaration ☒

Subject-specific advice to schools:

Subject Codes (Approach B):

Strand	Subject Code	Strand	Subject Code
Aeroskills Studies	**6089**	Furnishing Studies	**6078**
Automotive Studies	**6070**	Industrial Graphics Studies	**6074**
Building & Construction Studies	**6072**	Plastics Studies	**6091**
Engineering Studies	**6076**	Industrial Technology Studies	**6080**

- The **study area core** is mandatory and consists of the core principles of manufacturing, safety and technological processes. **An integrated approach over the two-year period should be adopted.** It encompass a problem-solving approach and provides a basis for acquiring the underpinning skills, understanding and concepts of the subject that will support further student learning.
- Industry orientation is a mandatory unit in all strands.
- Schools designing a course of study in the strand, **Industrial Technology Studies,** must choose a minimum of four and a maximum of six units of study from at least two of the seven strands. *Note: Courses which focus only on Industry orientation units are not considered appropriate.*

Section 2: Assessment overview and Sample Student Profile: Years 11 and 12

Indicate each planned assessment task and provide a sample student profile by completing the attached table.

- In the **Strand** column, indicate the proposed strand (e.g. 4.3) (refer to section 4 of the syllabus).
- In the **Semester** column, indicate the semester the strand will be offered.
- In the **Unit** column, indicate the units (e.g. Industry Orientation, Outdoor Construction, Indoor Construction, Finishing).
- Assessment should be undertaken through a series of projects related to single or multiple units. In the **Techniques** column, indicate a suggested project and a description of the assessment tasks used to compile the folio of work for each student (section 6.3). Assessment techniques include: multiple choice test, short answer test, written response to an open question, practical demonstration, planning, preparing and producing a product, simulated workplace activity, oral presentation/response, teacher observation of student skills.
- In the **Conditions** column, provide a description of the conditions under which the assessment instrument is to be administered (e.g. supervised workshop time, class time under direct supervision, unsupervised, individual, group, informal questions, on/off site, etc.).
- In the **Time** column, indicate the approximate time in minutes, hours or weeks allocated to the assessment task. (This may not be the duration of the unit)
- Indicate if the assessment is intended to be **formative or summative** (*Note: Year 11 should be mostly, if not all, formative*).
- In the **Criteria and standards** columns, complete the profile as it would appear for a student who has completed four semesters of the course by allocating standards for the appropriate criteria (C1 = Knowledge & understanding, C2 = Applied processes, C3 = Practical skills) assessed in each task.
- Also include exit standards in each criterion for Year 11 and Year 12, and an exit level of achievement.

Strand	Semester	Units	Technique(s) employed	Conditions	Time	Formative/ Summative	Criteria and Standards		
							C1	C2	C3
5.6	1	Industry orientation	**1. Research project** Use of graphics in manufacturing. Collection of graphical products with annotation and oral presentation. Teacher observations of oral annotated on criteria sheet.	Individual — class time, some teacher input.	3 wks 3 min oral	F	B	C	D
5.6	1	Graphics for general manufact-uring	**2. Folio of drawings** Concept to shop drawing for simple engineering product. including sketch and 2D CAD.	Individual — guided instruction under direct supervised class time.	6 wks	F	C		C
5.6	1	Graphics for furnishing industry	**3. Folio of drawings** Concept to details and cutting lists for basic garden furniture including spec and 2 and 3D CAD.	Small group — supervised class time.	6 wks	F	B	C	C
5.6	2	Graphics for building and construction industry	**4. Project** Develop an illustrated flow chart of production process for small outdoor construction project-sketches and 2 and 3D illustrations.	Individual — supervised class time and independent unsupervised time.	6 wks	F	B	B	C
5.6	2	Industrial design	**5. Project** Presentation package of F1 car concepts. 2 and 3D CAD and introduction to CAM.	Teacher supervised with limited input, in small team (2 or 3).	5 wks	F	C	C	C
5.6	3	Industrial design/ industry orientation	**6. Digital folio of drawings** A multi-component product suitable for CAM production. Group folio and annotated criteria sheet of teacher observations of individual students.	Teacher supervised with limited input, in small team (2 or 3).	8 wks	S	B	C	C
5.6	3	Graphics for general manufactur-ing	**7. Folio of drawings** Detail and assembly drawings of a machinery component. 2 and 3D CAD.	Individual — class time under supervision.	6 wks	S	B	B	B
5.6	4	Industry orientation	**8. Oral presentation** Compare and contrast aspects of the drafting industry. Annotated criteria sheet of teacher observations.	Individual — limited teacher input.	2 wks	S	A	B	C

5.6	4	Graphics for building and construction industry	**9. Project** Set of working drawings and spec for small industrial project — folio.	Teacher supervised with limited input.	6 wks	S	B	A	B
5.6	4	Graphics for furnishing industry	**10. Project** Kitchenette or bathroom for industrial workshop spec and 2 & 3D CAD.	Individual — teacher supervised with limited input.	6 wks	S	A	B	B
				Exit standards			A	B	B
				Exit level of achievement					HA

Additional comments:

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