

INDUSTRIAL TECHNOLOGY

Justify your decisions

The way you make your project counts - clear drawings and photographs will provide evidence of your knowledge, skill and hard work.

The HSC syllabus for Industrial Technology is divided into six industry focus areas: Automotive; Electronics; Graphics; Metal and Engineering; Multimedia; and Timber Products and Furniture.

Candidates studying Industrial Technology are required to design, manage and construct a Major Project and accompanying management folio for the practical examination and to complete a written examination specific to their chosen focus area of study.

Major Project (60 marks)

The Major Project is marked at your school by a team of external markers. Marks are awarded for: Design, Management and Communication (20 marks); and Production (40 marks).

Design, Management and Communication

This is your record of the design and management of your project, including such areas as development of ideas, research, time and finance plans.

This documentation is your chance to communicate the way you made your project, including the problems encountered and solutions achieved as you explain and justify your decisions.

Remember, the folio gives the markers valuable information to ensure you are awarded the marks you deserve. Often the evidence of your hard work, such as intricate joints or the way you constructed a web page, is hidden in your project. Make sure you include clear drawings and photographs taken during production to capture these features of the project.

Production

The syllabus lists the criteria used by the markers and includes quality, evidence of a range of skills, links between planning and production and evidence of practical problem-solving.

Ensure you present all your jigs, templates and test pieces when you set up your Major Project for marking. They are clear evidence of the testing and evaluation you undertook.

Some tips when presenting your Major Project and folio:

- ▶ Print a copy of the marking checklist, available from NSW HSC Online (hsc.csu.edu.au/ind_tech/assessment/2461/Project_Marking.htm).

- ▶ Ensure you address each criterion on the checklist.

- ▶ Make sure you organise the sections in a logical order.

- ▶ Don't fold drawings and other papers.

- ▶ Marks are awarded for communication, the quality of sketches and drawings and time spent presenting your information. NSW HSC Online (hsc.csu.edu.au/ind_tech/project) provides valuable information for the creation and presentation of your work.

- ▶ Read the Notes from the Marking Centre available from the Board of Studies NSW website (boardofstudies.nsw.edu.au/hsc_exams/hsc2008exams).

Written Examination (40 marks)

The written examination has changed significantly for the 2010 HSC as part of the syllabus revision. It is now divided into three sections and all questions are compulsory. The total time allowed for this paper is 90 minutes, plus five minutes of reading time.



There will be six separate written papers, one for each industry focus area.

Section I: Industry-related Manufacturing Technology (10 marks)

Consists of objective response questions specific to each industry focus area.

Section II: Industry-related Manufacturing Technology (15 marks)

Consists of one question specific to each industry focus area. It will have several parts and requires short answers.

In Sections I and II, you may be required to interpret data, complete sketches or diagrams and perform some calculations.

Section III: Industry Study (15 marks)

This consists of one structured extended-response question

based on the Industry Study section of the course. The expected length of the response is about 600 words, or four pages of the examination writing booklet. This question will be common to all six Industrial Technology examination papers.

Specimen papers for Multimedia Technologies and Timber Products and Furniture Technologies are available on the Board of Studies NSW website (boardofstudies.nsw.edu.au/syllabus_hsc/industrial-technology.html).

Preparing for the Written Examination

- ▶ Download a copy of the syllabus (boardofstudies.nsw.edu.au/syllabus_hsc) and familiarise yourself with its content and outcomes.

- ▶ Spend time answering previous HSC questions, which can be found at boardofstudies.nsw.edu.au/hsc_exams. Make sure you answer them under exam conditions.

- ▶ Visit NSW HSC Online

(hsc.csu.edu.au/ind_tech), which provides detailed notes and relevant activities.

- ▶ Familiarise yourself with the glossary of terms available on the Board of Studies NSW website (boardofstudies.nsw.edu.au/syllabus_hsc/glossary_keywords.html). It's not uncommon for students to lose marks because they miss the intent of the question. A question that asks you to "describe" is different to one that asks you to "explain".

Writer: Mark Tyler is Head Teacher Industrial Arts at Pennant Hills High School.

EXAM DETAILS

Date: Friday, November 5

Time: 1.55pm-3.30pm

Duration: 1 hour and 35 minutes (including reading time).

For the composition of the exam go to HSC Syllabuses on the Board of Studies website.