# Secondary Student Achievement PLD

# National Newsletter: Technology

**Information and resources for middle leaders in secondary schools | Term 2 2016**

Kia ora koutou, greetings to you all. In this issue we cover:
- latest technology news (see page 1)
- new resources to support the externally assessed generic Technology achievement standards (see page 2)
- dates and registration details for the 2016 national Technology workshops happening this term (see sidebar on page 2)
- Health and Safety legislation and the implications for schools (see page 3)
- Assessing group work in Technology. (see page 4)

Ngā mihi nui
Malcolm and Cheryl, National Co-ordinators – Technology

## Latest news

**National Technology workshops**
These happen this term and there are still places left at some venues. Full details about the workshop were in the term 1 newsletter. Details on dates, locations, and how to register are on page 2 of this newsletter.

**Latest assessment specifications**
See the updated assessment specifications for NCEA levels 1,2,3 and Technology scholarship on the NZQA subject resources page for Technology http://www.nzqa.govt.nz/qualifications-standards/qualifications/ncea/subjects/technology/levels/.
There is a small change around acceptable page margins.

**Assessment reports, schedules, and exemplars**
See the NZQA subject resources pages for the 2015 assessment reports, schedules, and exemplars which are due at the beginning of term 2.

**Food safety**
The Food Act 2014 came into effect on 1 March 2016. Note this is different to the new health and safety legislation. Under the Food Act 2014, all schools, kura, early childhood education (ECE) services and kōhanga reo must ensure the food they serve children is safe and suitable to eat. Depending on the type of food service provided, some will have additional obligations under the Food Act 2014 and the Food Regulations 2015 (the Food Regulations). The new food safety laws are being phased in.

New private schools, partnership schools, kura hourua, state and state integrated schools opening after 1 March 2016 will need to meet the requirements of the Act from the date they open. Existing schools and kura (as at 29 February 2016) have until 31 March 2018 to apply for registration and to get ready to meet the requirements of the Act.

Learn more about the new food safety law at the Ministry for Primary Industries (MPI) website. To find out how the law applies to you, use the 'Where do I fit tool' on the MPI website, or see the fact sheet for education providers found here:
http://www.mpi.govt.nz/food-safety/food-act-2014/resources/

## Resources

**Scholarship webinar**
If you missed the webinar on Technology Scholarship, or want to hear it again, you can find the recording and resources at

http://technology.tki.org.nz/Teacher-education/Technology-Online-webinar-Technology-scholarship



**Health and safety**
Keep up to date with the implications of the changes to the health and safety legislation at the Ministry of Education website. See page 3 of this newsletter or explore the ministry website at

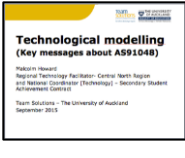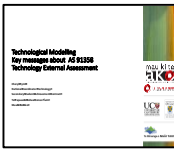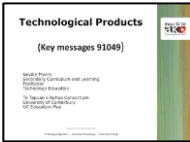http://www.education.govt.nz/ministry-of-education/specific-initiatives/health-and-safety/
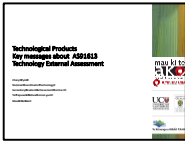
# New resource for the externals

**Screencasts**
A series of screencasts has been produced covering most of the externally assessed generic Technology standards. The screencasts cover key messages about the teaching and learning, and assessment related to each standard.

**Which standards are covered?**
See the table below which shows which screencasts are completed to date, and which ones are new this year.

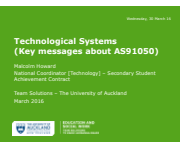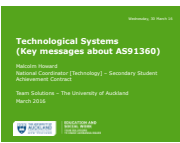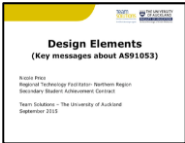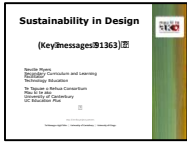| | Level one | Level two | Level three |
|---|---|---|---|
| Technological modelling |  2015 |  **New** in 2016 |  **New** in 2016 |
| Technological products |  2015 |  **New** in 2016 |  **New** in 2016 |
| Technological systems |  **New** in 2016 |  **New** in 2016 | Not available yet |
| Knowledge of design |  2015 |  **New** in 2016 | Not available yet |

**Where to find these screencasts**
All these screencasts are located on our Technology PLD wikis:

Team Solutions Technology Wiki at
http://technologynz.wikispaces.com/
Screencasts+externally+assessed+standards
Or
Southern Technology Wiki at
http://southern-technology.wikispaces.com/

**Format of the screencasts**
The screencasts all follow a similar format starting with links to the curriculum and ideas around teaching and learning. They then move on to look at key messages for assessment, firstly at an achieved level and then the step ups to merit and excellence.

## Technology workshops

**The venues and dates within the regions covered by Team Solutions:**

| | |
|---|---|
| Hamilton | 10 May |
| Tauranga | 12 May |
| Auckland (N & W) | 17 May |
| Auckland (S & E) | 19 May |
| Napier | 24 May |
| Gisborne | 26 May |
| Whangarei | 31 May |

To attend any of the above workshops in the region covered by Team Solutions, go to
https://intranet.teamsolutions.ac.nz/forms/index.php/forms/workshop_enrolment/KVTS09
and select the relevant venue from the 'Workshop' dropdown menu.

**The venues and dates within the regions covered by Mau ki te Ako:**

| | |
|---|---|
| Balclutha | 10 May |
| Palmerston North | 17 May |
| Christchurch | 19 May |
| New Plymouth | 24 May |
| Wellington | 26 May |
| Nelson | 31 May |

To attend any of the above workshops in the region covered by Mau ki te Ako, go to the online registration at
https://secure-www.otago.ac.nz/ess-enrolment/secondaryncea.html
Note fliers will be sent to all schools in the region covered by Mau ki te Ako, or see the information at
http://www.otago.ac.nz/education/ess/secondarytechnology.html
For questions, contact University of Otago College of Education. Email:
essadmin@otago.ac.nz

**These workshops are free**
There is no cost to register as the workshop is funded by the Ministry of Education as part of support for the Secondary Student Achievement professional development.

**Note:** Morning tea only is provided, you will need to supply your own lunch, and **please bring a laptop (or other device with a USB port), and headphones.**

# Health and safety

**Health and Safety Practical Guide for Boards of Trustees and School Leaders**

http://www.education.govt.nz/ministry-of-education/specific-initiatives/health-and-safety/h-and-s-for-boards-of-trustees-and-school-leaders/

These guides are now available on the Ministry of Education website and are intended as a supplementary resource to support those involved in governance and leadership at schools/kura to develop a clear understanding of what the Health and Safety at Work Act 2015 (HSWA) means for them.

Health and Safety at Work Act - The HSWA now makes health and safety everyone's responsibility!

Schools must first and foremost draw their information and guidance from the HSWA itself, the Regulations made under the HSWA and WorkSafe New Zealand.

This guide provides an overview of the Health and Safety at Work Act 2015 (HSWA), and outlines the responsibilities of boards of trustees (boards) and school leaders under it. We recommend all school leaders and Head of Faculty read this guide.

In an early section of the guide, a six stage process for setting up coherent policies and practices within a school setting is outlined. There are also useful guides and tools on the website above to assist school leaders.

Section 2 of the guide outlines the roles and responsibilities in school/kura setting in a table that gives clear definition of the roles, who these people are within the school/kura and what the responsibilities under HSWA are for each group.
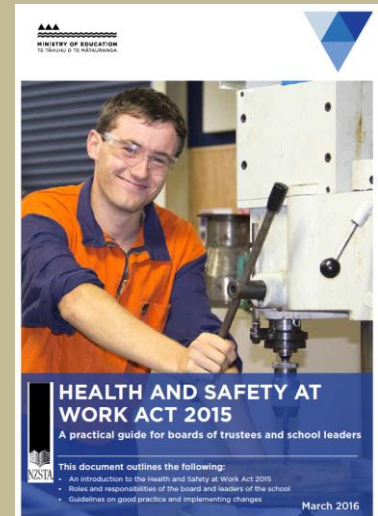
The guide contains a number of useful tools and templates that will help understand all aspects of the changes to health and safety. Below is a clip that shows the nature of some of the tools



**Step 1**  Describe the hazard
eg, loose light fitting

**Step 2**  State the location of the hazard
eg, Classroom 2, plug beside exit door

**Step 3**  Rate the risk
eg, 1 = Low (unlikely to cause harm)
3 = High (will cause a notifiable event)

**Step 4**  Recommend the control measure
Eliminate – repair/remove
Isolate – use warning signs, etc
Minimise – provide training and monitor

**Step 5**  Obtain authorisation for the control measure and implement

In our term 1 newsletter we signalled that the *Safety in Technology Education Guidance Manual* was to be updated. This is an ongoing piece of work. We will advise you when this is published.

We also mentioned the health and safety workshops for Technology would take place in term 2. These workshops are now looking more likely to be sometime in term 3.

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**Health and Safety Practical Guide for Boards of Trustees and School Leaders**



http://www.education.govt.nz/assets/Documents/Ministry/Initiatives/Health-and-safety/Tools/Health-and-Safety-at-Work-Act-2015.pdf

A guiding tool for the process of change with the new legislation



**Where to go for help or further resources**
WorkSafe NZ
http://www.business.govt.nz/worksafe/

Ministry of Business, Innovation and Employment (MBIE)
http://www.mbie.govt.nz

Ministry of Education
http://www.education.govt.nz/ministry-of-education/specific-initiatives/health-and-safety/

NZSTA Interactive online modules
http://resources.nzsta.org.nz/HealthandSafety/story.html

Accident Compensation
http://www.acc.co.nz

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# Group work in technology

Group work is something that many teachers incorporate into the teaching and learning programme in Technology. This is something that reflects real world approaches to problem solving, is part of the future focus in *The New Zealand Curriculum*, develops a collaborative approach and should be encouraged in our learning area. However, we are often asked how this can be managed for assessment purposes.

**Conditions of assessment, Levels 1-3**

The recently revised Conditions of Assessment state that, "where a group approach is used the teacher needs to ensure that there is evidence that each student has met all aspects of the standard. Teachers must closely supervise stages of the development process in order to ensure authenticity of student work."

**Authenticity from NZQA, general advice section**

Information on the NZQA website and specifications state that, "Assessors must verify that the work submitted for assessment has been produced by the learner… It is also appropriate for learners to learn from others and to gather information from a variety of sources. However, assessors must be clear that the work to be assessed has been processed and produced by the student."
http://www.nzqa.govt.nz/providers-partners/assessment-and-moderation/assessment-of-standards/generic-resources/authenticity/

**Revised Scholarship assessment specifications**

The revised Technology Scholarship assessment specifications also clarify the issue of authenticity and group work:
"Where candidates have been involved in group projects, the candidate must explicitly declare their individual role within the project, and report on their own work only.  Where this is not clear, the examiner may not see the evidence as belonging to the candidate."

**How can an assessment task be structured in such a way that allows you as the teacher to assess individual work within the context of a group project? Some strategies…**

- Structure assessment tasks where individual projects or components exist inside a larger development.
- Use a similar statements to that of the Scholarship specification where students declare explicitly which part of the work is their own or that they have collaborated in research but then this is their interpretation of group material.

For group projects such as a collection of toys for a kindergarten, a new playground filled with a variety of pieces of play equipment, a food parcel with a range of food products, or a digital media story, video or web page with different components, it is feasible that students could collaborate with each other and stakeholders in some aspects of the planning and research but be assessed using a standard that focuses on their individual component. The key is in structuring these learning and assessment activities and tasks so that the evidence maintains its integrity as being from an individual for that particular assessment focus.

**Moderator's comments from the March 2014 newsletter**
Students might share their research, they might carry out different trials/tests and share the results, or they might work on different aspects of a project. However, for assessment, it must be determined whether an individual student has met the requirements of a standard. This might involve students reporting their analysis of the results of tests that were carried out by their classmates and using these results to inform their individual practice.

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## Technology PLD wikis

Southern Technology Wiki
http://southern-technology.wikispaces.com/

Team Solutions Technology Wiki
technologynz.wikispaces.com/