



**SOUTH SHORE REGIONAL SCHOOL BOARD
CURRICULUM UPDATES AND CONTACT INFORMATION**

Last updated: June 29th, 2017

TECHNOLOGY-RELATED EDUCATION

Continue to go to the link for **safety tests update** at <https://goo.gl/itAuwd>
There have been some changes re the Safety Orientation information and tests have been updated. Written tests are kept for 1 year unless a student injury occurs and then they must be kept for 3 years after the student leaves high school. Bench grinding is allowed indoors but is still a concern on the new Hot Works policy.

Contacts

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Curriculum Guides

If teachers have not yet downloaded the curriculum documents or Learning Outcomes Frameworks, they can be found (not all) in various stages (final, draft, conceptual, ..) on the **EduPortal**.

The DoE are now housing all the **curriculum guides/documents** in a one-stop place called the EduPortal. Check this central place out at <http://edapps.ednet.ns.ca/eduportal>
You will need your Employee Number as found on your payroll information to enter the site. Go to Resources and then **Educator's Site and/or the Curriculum Cart** to access/download the curriculum documents.

Curriculum guides may also be accessed through their respective **Moodles** such as: Mathematics P-3, 4-6, 7-9, 10, 11, and 12; P-3 Renew, Revisit, Rebuild; An Innovative Curriculum; 4-6 Renew, Refocus, Rebuild. Innovation and Exploration-Grades 4-6 Streamlined Curriculum; Social Studies grades 3-6 and Mi'kmaw Studies 11; some Family Studies courses like Child Studies 9 and Canadian Families 12; Healthy Living 9:

Workplace Health & Safety Module; Entrepreneurship 12 and Cooperative Education. Teachers have been given access to these Moodles with a one-time enrollment key. If you need assistance please go to our SSRSB Curriculum site located on www.ssrbs.ca or contact Mark MacLeod at mmacleod@ssrbs.ca

Besides updated curriculum guides, EduPortal also has easy access to other resources and links such as: the On-Line Video Library, upcoming events such as Webinars, Digital Video Library, EBSCO, Ednet Cloud, Education Media Library, Evaluation Services / Provincial Assessment info, FSL Program Services, IB Program, NSVS, NSSBB Online (ALR),

Information Items of Interest

Dust Collection Update


The Province of NS is committed to establishing a culture of safety in Production Technology labs as **dust collection system** repairs and replacements are taking place in schools throughout our province. Construction has been ongoing in several schools. Upon completion, all production labs will be safer places to work and learn, with 95% source capture on all sawdust producing machines within the labs.

The Dust Collection Guidelines for Safe Operation of Production Technology Machinery (Nov 2013) was sent to principals to share with their Technology Education teachers. It is important for teachers to implement the 3 controls that are listed re dust collection and type of machine used.

Approved Local Courses. It has been confirmed with PowerSchool staff that all locally developed courses that were approved for the 2016/2017 school year are automatically approved for 2017/2018 unless the board has requested a course be discontinued, which we haven't. Some courses (Psychology 12 for example) still have the Expiry Date as June 2017 in Power School and principals are seeing this and thinking they are not available. A ticket was sent to have those Expiry dates removed and replaced with June 2018.


The Skilled Trades and Technology Education Safety policy is still in draft form.

Safety 1st!!

-  Safety Net is a comprehensive teaching and learning resource that supports courses in Technology Education 7-12 and Skilled Trades Education 10-12. These NEW Safety-Net Procedures (general safety orientation and safety test, safety information and tests for various power tools and machines (i.e. band saw, drill press, ...) **are effective immediately (Feb 2016)**. The following link is a folder of these aforementioned Safety-Net materials in Google Docs that is available to anyone on the web and can be used to teach the new Safety-Net program immediately.

<https://goo.gl/itAuwd>

This folder currently contains basic Safety-Net learning information on Lab Safety, Personal Safety and Tool/Equipment Safety along with a general Safety Test as well as safety tests for all wood production/construction power tools and machines. More information will be populated to this folder as it is made available. Safe Operating Procedure posters and Safety tags for machines were given to schools (March 2106). Please post these near the respective machines. Please note: Teachers (Tech Ed 7-12, Skilled Trades, O2 Service Learning projects, STEP) are only expected to teach and test students for machines that are applicable to the learning at that time. Students may need accommodations, and may repeat the test many times in different ways using assessment for learning practices. Professional judgement is key to success. The test record is the machine permit for students, and proof of teacher duty of care. A student who does the test in a 1st semester course does not need to repeat the same test in a different 2nd semester course unless the teacher wants it done again. **UPDATE (Sept 2016)-** The Safety-Net tests have changed. Kilah received feedback from many teachers that the tests were too long, and covered machine processes, as well as safety. They reviewed the content of the tests and selected 10-15 items for each machine that are related ONLY to safety. A reminder to keep these safety tests on record for 1 year. These tests must be done yearly.

 You will find all of the **safety tests listed in Power Teacher Gradebook** in your Tech Ed or Skilled Trades courses between the Learner Profile and the Curriculum Outcomes in the Final Grades Mode. There is a field to record a pass in the grade scale of those safety tests. If the student hasn't reached the 100% mark + approval from you, they are not permitted to use the machine. They recommend recording the grade as well (create an assessment in PTG) just so you know they at least took the test, but those grades should not be used as summative with your assessment records.

This PT Gradebook record is now your official record for long-term recording purposes. You should keep written tests for a period of one year, but the long term record will be in Power School and dated there, with one exception – see below. (This should lighten up the filing cabinet!)

If there is a safety incident reported, please keep a record of the student test and a copy of the incident report in your files (electronic or paper) for 3 years after the student turns 19. These are the only tests that should be kept on file after one year. We have never been asked for this, but SiP wants it this way just in case.

You must do new safety tests with the students each school year. They can carry over from semester 1 to semester 2 if you wish, but we assume they forget everything over the summer and start new each school year.

Students can take the test as many times as you decide is appropriate, and with accommodations as you see appropriate. Test students only on machines they need to use. If there is a machine that you use that is not represented in the Safety-Net package, please create your own test and record if you feel it is required. A good resource is

<http://search.ccinfoweb.ccohs.ca/ccohs/jsp/search/ccohs.jsp?QueryText=woodworking&MaxDocs=500&ResultStart=1&SortSpec=Score+desc&hTab=0&searchScope=osanswers>

Please ensure your supervisor knows where you keep all of your safety records (whether electronic or file copy) in case you are no longer in the building if an incident re-surfaces.

Google Form versions of the tests will be available, but we are working out how to make them your own, so the spreadsheet data goes to you, and not me.

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- **Safety Tests**-always trying to improve and make easier for teachers. Next will be the ability to get the Safety Tests on-line (feedback from our teachers to Kilah during the Nov PD day at FHCS). Information will be coming out to us to share with teachers soon. If a student makes a mistake they get a retry (hopefully choose the opposite of T/F!!)-then a spreadsheet is generated for the teacher so they can see the retries and have discussions around areas of safety that still need to be addressed with the various machines.
- **Hot Work Procedures** The hot work procedure requirements doc has been approved by the Office of the Fire Marshal (OFM), and can be found in the folder link: <https://goo.gl/itAuwd> If you are using soldering irons, welding, grinding, etc., please be sure to read this document carefully before proceeding. Most of the expectations have eased up a bit from where we were after the dust collection remediation, but you should read it over.
- The following schools received (Jan 2016) the new FEIN shop vacs to be used in Tech Ed rooms and/or Skilled Trades Centres: BCS (3), BJSH (2), FHCS (1), NGRHS (1), NQRHS (1).
- All schools offering grades 9 through 12 Production Technology classes, that currently use a table saw, will have most likely received the safest saw available. The SawStop table saw is designed to stop the blade within five one thousandths of a second upon contact with human flesh. Information on professional learning opportunities in regard to this matter is forthcoming. (www.sawstop.com) All eligible schools should have received the SawStop table saw by June 28, 2013. The DoE will help with electrical costs of installing the saws-see Andy Selig for further information. In addition, each school outfitted with a production

technology laboratory will be receiving a “lock-out, tag-out” electrical safety kit as part of the dust collection remediation program. The kit will allow teachers to lock out a machine when it is out of order or undergoing repairs using the latest standard in safety equipment.

- **Cartridge and blades for SawStop** can be ordered through Stellar / Fundy Industrial (Darrell@fundygrinding.com) or send back to US company and they may send you a free one!
- **Tool and machine sharpening** can be arranged through Scott Lundie at Lundie Tool and Machine in Lower Onslow (902-641-2337)
- **Gripper Push Block (1/4 inch)** will be coming (May 2017) to Tech Ed and ST teachers-purchased from Rideout Tools (Amorrison@rideouttool.com)
- Teachers of Tech Ed 9, Communications Technology 11, Design 11 and Multimedia 12, might find this contest interesting to you and/or your students.
http://www.dx.org/index.cfm?pagepath=Education/The_Sears_DX_Canadian_High_School_Design_Competition&id=58546
- A PD workshop for Tech Ed and Skilled Trades teachers took place on November 30, 2016 at FHCS focusing on the many varied topics that are involved in these subject areas such as Safety Testing, design challenges etc. Representatives from the DoE (Kilah Hayden) were in attendance to speak about provincial policies and answer any “outside-the-box-questions!”

- Select a grade and/or category for more curriculum/course support & resources

[Grade Seven](#)

[Grade Eight](#)

[Grade Nine](#)

[Grade Ten](#)

[Construction Technology 10](#)

[Exploring Technology 10](#)

[Grade Eleven](#)

[Applied Networking Technology 11](#)

[Communications Technology 11](#)

[Design 11](#)

[Electro Technologies 11](#)

[Energy, Power, and Transportation 11](#)

[Production Technology 11](#)

[Grade Twelve](#)

[Audio Recording and Production 12](#)

[Communications Technology 12](#)

[Computer Programming 12](#)

[Film & Video Production 12](#)

[Multimedia 12](#)

[Production Technology 12](#)

Update on the Grades 7-8 Curriculum review: Start date is projected to be October 2017. Will likely start with ELA and Social Studies and will be done over a 2-year period-lesson learned from P-3 and 4-6 rush job!! Curriculum for 7-8 is in great need of revision and change-stay tuned!!

Grade 7

Technology Education 7

Provincial Guide

- Technology Education 7 and 8 (Draft, June 2013)
- Technology Education Outcomes Chart, Grades 7-9
- Technology Education **grade 7/8 Curriculum Launch** took place in Truro in June 2013. Teachers attending the event took part in a variety of hands-on workshops and engaged in discussions pertaining to the new curriculum, as well as familiarizing themselves with the new resources. Each school received: 1 Festool cordless drill kit, 3 teacher resource books (The Non-Designer's Design Book, The Inventa Book of Structures, and the Inventa Book of Mechanisms), a Technology Education Poster Pack, and a memory stick containing **digital versions of the Technology Education 7-8 curriculum document**, 3 steel rulers and a digital still camera. Schools also received other resources based on their choice such as CNC iCarver and Lego Technic Pneumatics.
- The outcomes framework includes four modules: Communications Technology, Energy Engineering, Production Technology, and Inventions and Innovations. Curriculum expectations for schools are 25–100 hours for each grade level (1–4 modules, 25 hours of instruction time per module).
- The new outcomes framework for Technology Education 7-9 can be found at http://www.ednet.ns.ca/pdfdocs/outcomes/by_subject/tech_ed_7-9.pdf
- This is an elective course and instruction should be provided in a dedicated time slot during the regular school day, and not in conflict with courses in the student's program. Schools may experience challenges in offering Technology Education 7 along with other electives (Visual Arts, Explore Music, Band Instruments and Family Studies) and are encouraged to schedule the electives in such a way that students enrolled in Technology Education 7 will have opportunities to take other electives.
- **Safety Tests**-always trying to improve and make easier for teachers. Next will be the ability to get the Safety Tests on-line (feedback from our teachers to Kilah during the Nov PD day at FHCS). Information will be coming out to us to share with teachers soon. If a student makes a mistake they get a retry (hopefully choose the opposite of T/F!!)-then a spreadsheet is generated for the teacher so they can see the retries and have discussions around areas of safety that still need to be addressed with the various machines.
- Safety Net is a comprehensive teaching and learning resource that supports courses in Technology Education 7-12 and Skilled Trades Education 10-12.

These NEW Safety-Net Procedures (general safety orientation and safety test, safety information and tests for various power tools and machines (i.e. band saw, drill press, ...) **are effective immediately (Feb 2016)**. The following link is a folder of these aforementioned Safety-Net materials in Google Docs that is available to anyone on the web and can be used to teach the new Safety-Net program immediately.

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Core Resources

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- The Integration of Information and Communication Technology Within the Curriculum, P-12 (2005)-available only on the Internet and from LRT
- Community-Based Learning: A Workshop Health and Safety Resource for Educators (a CD which holds over 100 different best practices safety resources)
- Educator's webpage at www.worksafeforlife.ca

Grade 8

Technology Education 8

Provincial Guide

- Technology Education 7 and 8 (Draft, June 2013)
- Technology Education Outcomes Chart, Grades 7-9
- Technology Education **grade 7/8 Curriculum Launch** took place in Truro in June 2013. Teachers attending the event took part in a variety of hands-on workshops and engaged in discussions pertaining to the new curriculum, as well as familiarizing themselves with the new resources. Each school received: 1 Festool cordless drill kit, 3 teacher resource books (The Non-Designer's Design Book, The Inventa Book of Structures, and the Inventa Book of Mechanisms), a Technology Education Poster Pack, and a memory stick containing **digital versions of the Technology Education 7-8 curriculum document**, 3 steel rulers and a digital still camera. Schools also received other resources based on their choice such as CNC iCarver and Lego Technic Pneumatics.
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- The new outcomes framework for Technology Education 7-9 can be found at http://www.ednet.ns.ca/pdfdocs/outcomes/by_subject/tech_ed_7-9.pdf
- This is an elective course and instruction should be provided in a dedicated time slot during the regular school day, and not in conflict with courses in the student's program. Schools may experience challenges in offering Technology Education 8 along with other electives (Visual Arts, Explore Music, Band Instruments and Family Studies) and are encouraged to schedule the electives in such a way that students enrolled in Technology Education 8 will have opportunities to take other electives.
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Grade 9

Technology Education 9

Provincial Guide

- Technology Education 9 Curriculum Guide (Draft, April 2012). There are four modules of the course: Inventions and Innovations, Communications Technology, Energy Engineering, and Production Technology.
- Technology Education Outcomes Chart, Grades 7-9
- **Technology Education 9** curriculum has been updated and an Implementation Workshop was held on May 3-4, 2012 at The Holiday Inn Hotel & Conference Centre, in Truro, NS. Schools were invited to send one

participant per school offering grade 9 in the 2012-2013 school year. This provincial workshop was designed to introduce teachers to the new curriculum for Technology Education 9 (Draft, April 2012). This hands-on, minds-on workshop involved engaging teachers in activities such as screen process printing, rustic furniture design and construction, game design and construction, hydraulic robotics, digital video and photography, and many others involving the four modules of the course: Communications Technology, Inventions and Innovations, Energy Engineering, and Production Technology. In addition, the workshop served to provide each school with professional resources (grade 7-9 outcomes chart, ..) and materials (Makita Drill kits, Silk Screening kit, ..) to support delivery of this new curriculum, and provide teachers with practical learning opportunities related to the topics and modules within the curriculum.

- Please note that the curriculum is laid out in 4 modules. Each module is designed to be offered within 20-25 hours. It is up to you as to how many of the modules you are able to offer to the grade 9 classes. The resources can be used across the modules. However, the screen printing and digital camera are intended to support Communications Technology for those schools who have not provided students with an opportunity to get students "learning standing up".
- A new outcomes framework for Technology Education 7-9 can be found at http://www.ednet.ns.ca/pdfdocs/outcomes/by_subject/tech_ed_7-9.pdf
- This is an elective course and instruction should be provided in a dedicated time slot during the regular school day, and not in conflict with courses in the student's program. Schools may experience challenges in offering Technology Education 8 along with other electives (Visual Arts, Explore Music, Band Instruments and Family Studies) and are encouraged to schedule the electives in such a way that students enrolled in Technology Education 8 will have opportunities to take other electives.
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Core Resources

- **Technology Education 9** curriculum has been updated and an Implementation Workshop was held on May 3-4, 2012 at The Holiday Inn Hotel & Conference Centre, in Truro, NS. Teachers were provided with a screen printing kit, which is all-inclusive for photo emulsion screen printing. The kit is complete with a video, which is an excellent resource for your learning purposes (not so great for the students though). Other resources include:
 - 1 screen printing kit (1 box)
 - 1 screen printing burning unit (1 box)
 - 1 Nikon Coolpix Digital Camera
 - rechargeable battery pack
 - 1 mini tripod
 - 1 USB drive with curriculum guide (and other resources) installed
 - poster set
 - Makita 18V Li-Ion cordless drill kit
 - 1 Drill set
- The Integration of Information and Communication Technology Within the Curriculum, P-12 (2005)-available only on the Internet and from LRT
- Community-Based Learning: A Workshop Health and Safety Resource for Educators (a CD which holds over 100 different best practices safety resources)
- Educator's webpage at www.worksafeforlife.ca

Grade 10

Construction Technology 10 (Open) CNT10

Provincial Guide

- This Grade 10 course is being updated/re-developed as well as a new Grade 12 course called Construction Technology 12 which is also being worked on
- **Safety Tests**-always trying to improve and make easier for teachers. Next will be the ability to get the Safety Tests on-line (feedback from our teachers to Kilah during the Nov PD day at FHCS). Information will be coming out to us to share with teachers soon. If a student makes a mistake they get a retry (hopefully choose the opposite of T/F!!)-then a spreadsheet is generated for the teacher so they can see the retries and have discussions around areas of safety that still need to be addressed with the various machines.
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Core Resources

- Carpentry: Building and Construction texts (6 copies) for support until curriculum is revised
- <http://teched.ca> a good site for Technology Education teachers
- The Integration of Information and Communication Technology Within the Curriculum, P-12 (2005)-available only on the Internet and from LRT
- Community-Based Learning: A Workshop Health and Safety Resource for Educators (a CD which holds over 100 different best practices safety resources)
- Educator's webpage at www.worksafeforlife.ca

Exploring Technology 10 (Acad) EXT10AC

Provincial Guide

- Exploring Technology 10 (Implementation Draft 2008)
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- The Integration of Information and Communication Technology Within the Curriculum, P-12 (2005)-available only on the Internet and from LRT
- Schools will be receiving 10 sets of EKI Mr. Circuit 1 electronic kits and books to support the “Control Technology” module in the updated academic course that was launched in 2008.
- Exploring Technology teachers will soon be able to order VEX robotics kits and parts from the ALR at best prices.
- Community-Based Learning: A Workshop Health and Safety Resource for Educators (a CD which holds over 100 different best practices safety resources)
- Educator’s webpage at www.worksafeforlife.ca

Grade 11

Applied Networking Technology 11 (Acad) ANTEC11

Provincial Guide

- An Approved Local Course –last re-written in March 2009 / HRSB
- **Approved Local Courses.** It has been confirmed with PowerSchool staff that all locally developed courses that were approved for the 2016/2017 school year are automatically approved for 2017/2018 unless the board has requested a course be discontinued, which we haven’t. Some courses (Psychology 12 for example) still have the Expiry Date as June 2017 in Power School and principals are seeing this and thinking they are not available. A ticket was sent to have those Expiry dates removed and replaced with June 2018.

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- <http://teched.ca> a good site for Technology Education teachers
- The Integration of Information and Communication Technology Within the Curriculum, P-12 (2005)-available only on the Internet and from LRT
- Community-Based Learning: A Workshop Health and Safety Resource for Educators (a CD which holds over 100 different best practices safety resources)
- Educator’s webpage at www.worksafeforlife.ca

Communications Technology 11 (Acad) CMT11AC

Provincial Guide

- Communications Technology 11 and 12 (Draft Nov 2009)

- Updated curriculum (with a mandatory module in Digital Photography) has been received as well as digital SLR cameras, tripods, lighting kits, solid modeling software, and textbooks

Core Resources

- Non-Designer's Web Book and Non-Designer's Design texts
- Digital Photography, 3rd Edition, 101 Tips and Tricks (coming March 2011)
- <http://teched.ca> a good site for Technology Education teachers
- The Integration of Information and Communication Technology Within the Curriculum, P-12 (2005)-available only on the Internet and from LRT
- Community-Based Learning: A Workshop Health and Safety Resource for Educators (a CD which holds over 100 different best practices safety resources)
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Design 11 (Acad) DES11

Provincial Guide

- Design 11 (2000)
- This course may be offered as an Arts course or as a Technology-Related course but does not satisfy the compulsory arts credit requirement

Core Resources

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- The Integration of Information and Communication Technology Within the Curriculum, P-12 (2005)
- Community-Based Learning: A Workshop Health and Safety Resource for Educators (a CD which holds over 100 different best practices safety resources)
- Educator's webpage at www.worksafeforlife.ca

Electro Technologies 11 (Acad) ELECTRO11

Provincial Guide

- Electro Technologies 11 (2000)

Core Resources

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- The Integration of Information and Communication Technology Within the Curriculum, P-12 (2005)-available only on the Internet and from LRT
- Community-Based Learning: A Workshop Health and Safety Resource for Educators (a CD which holds over 100 different best practices safety resources)
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Energy, Power, and Transportation 11 (Open) ENERGY11

Provincial Guide

- Energy, Power, and Transportation 11 (No. 146, 1996)

Core Resources

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Production Technology 11 (Open) PDT11

Provincial Guide

- Production Technology 11 and 12 (No. 148, 1996)
- **Safety Tests**-always trying to improve and make easier for teachers. Next will be the ability to get the Safety Tests on-line (feedback from our teachers to Kilah during the Nov PD day at FHCS). Information will be coming out to us to share with teachers soon. If a student makes a mistake they get a retry (hopefully choose the opposite of T/F!!)-then a spreadsheet is generated for the teacher so they can see the retries and have discussions around areas of safety that still need to be addressed with the various machines.
- Safety Net is a comprehensive teaching and learning resource that supports courses in Technology Education 7-12 and Skilled Trades Education 10-12. These NEW Safety-Net Procedures (general safety orientation and safety test, safety information and tests for various power tools and machines (i.e. band saw, drill press, ...) **are effective immediately (Feb 2016)**. The following link is a folder of these aforementioned Safety-Net materials in Google Docs that is available to anyone on the web and can be used to teach the new Safety-Net program immediately.

<https://goo.gl/itAuwD>

This folder currently contains basic Safety-Net learning information on Lab Safety, Personal Safety and Tool/Equipment Safety along with a general Safety Test as well as safety tests for all wood production/construction power tools and machines. More information will be populated to this folder as it is made available. Safe Operating Procedure posters and Safety tags for machines were given to schools (March 2106). Please post these near the respective machines. Please note: Teachers (Tech Ed 7-12, Skilled Trades, O2 Service Learning projects, STEP) are only expected to teach and test students for machines that are applicable to the learning at that time. Students may need accommodations, and may repeat the test many times in different ways using assessment for learning practices. Professional judgement is key to success. The test record is the machine permit for students, and proof of teacher duty of care. A student who does the test in a 1st semester course does

not need to repeat the same test in a different 2nd semester course unless the teacher wants it done again. **UPDATE (Sept 2016)**- The Safety-Net tests have changed. Kilah received feedback from many teachers that the tests were too long, and covered machine processes, as well as safety. They reviewed the content of the tests and selected 10-15 items for each machine that are related ONLY to safety. A reminder to keep these safety tests on record for 1 year. These tests must be done yearly.

Core Resources

- Copies of the text Wood: Technology and Processes to help support **Production Technology 11 and Production Technology 12** were sent out to schools in late February 2012. This modern resource will supplement these two courses while the curriculum is being reviewed.
- <http://teched.ca> a good site for Technology Education teachers
- The Integration of Information and Communication Technology Within the Curriculum, P-12 (2005)-available only on the Internet and from LRT
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- Educator's webpage at www.worksafeforlife.ca

Grade 12

Audio Recording and Production 12 (Acad) ARP12

Provincial Guide

- Audio Recording and Production 12 (Draft 2009)

Core Resources

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Communications Technology 12 (Acad) CMT12AC

Provincial Guide

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Computer Programming 12 (Acad) COMP12

Provincial Guide

- Computer Programming 12 (Draft 2005)
- A revision of the **Computer Programming 12** course is in the works-stay tuned!

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- The Integration of Information and Communication Technology Within the Curriculum, P-12 (2005)-available only on the Internet and from LRT

Film and Video Production 12 (Acad) FVP12

Provincial Guide

- Film and Video Production 12 (2003)

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Multimedia 12 (Acad) MM12

Provincial Guide

- Multimedia 12 (Implementation Draft 2008)

Core Resources

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- The Integration of Information and Communication Technology Within the Curriculum, P-12 (2005)-available only on the Internet and from LRT

Production Technology 12 (Open) PDT12

Provincial Guide

- Production Technology 11 and 12 (No. 148, 1996)

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