

**ISPS Technology Pre-K-12  
Standards and Benchmarks**

# **High School**

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**Strands**

1. Basic Operations and Concepts
2. Social, ethical and human issues
3. Technology productivity tools
4. Technology communications tools
5. Technology research tools
6. Technology problem-solving and decision-making tools

# **ISPS Technology Pre-K-12 Standards and Benchmarks**

## **Strand 1 – Basic Operations and Concepts**

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**Standard 1 - Students will demonstrate a sound understanding of the nature and operation of technology systems and will be proficient in the use of technology**

**Benchmarks - By the end of Grade 12, students will:**

- 1 – 1 Make informed choices among technology systems, resources, and services

## **Strand 2 – Social, ethical and human issues**

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**Standard 2 – Students will understand the ethical, cultural and societal issues related to technology, practice responsible use of technology systems, information and software and develop positive attitudes toward technology uses that support lifelong learning, collaboration, personal pursuits and productivity.**

**Benchmarks - By the end of Grade 12, students will:**

- 2 – 1 Make informed choices among technology systems, resources, and services
- 2 – 2 Identify capabilities and limitations of contemporary and emerging technology resources and assess the potential of these systems and services to address personal, lifelong learning, and workplace needs
- 2 – 3 Analyze advantages and disadvantages of widespread use and reliance on technology in the workplace and in society as a whole
- 2 – 4 Demonstrate and advocate for legal and ethical behaviors among peers, family, and community regarding the use of technology and information

## **Strand 3 – Technology productivity tools**

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**Standard 3 - Students will use technology tools to enhance learning, increase productivity, and promote creativity and will use these tools to collaborate in constructing technology-enhanced models, prepare publications, and produce other creative works.**

**Benchmarks - By the end of Grade 12, students will:**

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- 3 – 1 Use technology tools and resources for managing and communicating personal/professional information (e.g., finances, schedules, addresses, purchases, correspondence)
- 3 – 2 Investigate and apply expert systems, intelligent agents, and simulations in real-world situations

### **Strand 4 – Technology communications tools**

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**Standard 4 – Students will use telecommunications to collaborate, publish, and interact with peers, experts, and other audiences and will use a variety of media and formats to communicate information and ideas effectively to multiple audiences.**

**Benchmarks - By the end of Grade 12, students will:**

- 4 – 1 Use technology tools and resources for managing and communicating personal/professional information (e.g., finances, schedules, addresses, purchases, correspondence)
- 4 – 2 Routinely and efficiently use online information resources to meet needs for collaboration, research, publications, communications, and productivity
- 4 – 3 Select and apply technology tools for research, information analysis, problem-solving, and decision-making in content learning
- 4 – 4 Collaborate with peers, experts, and others to contribute to a content-related knowledge base by using technology to compile, synthesize, produce, and disseminate information, models, and other creative works

### **Strand 5 – Technology research tools**

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**Standard 5 – Students will use technology to locate, evaluate, and collect information from a variety of sources and will use these tools to process data and report results. Students will also evaluate and select new information resources and technological innovations based on the appropriateness for specific tasks.**

**Benchmarks - By the end of Grade 12, students will:**

- 5 – 1 Evaluate technology-based options, including distance and distributed education, for lifelong learning
- 5 – 2 Routinely and efficiently use online information resources to meet needs for collaboration, research, publications, communications, and productivity
- 5 – 3 Select and apply technology tools for research, information analysis, problem-solving, and decision-making in content learning
- 5 – 4 Investigate and apply expert systems, intelligent agents, and simulations in real-world situations

## **ISPS Technology Pre-K-12 Standards and Benchmarks**

- 5 – 5 Collaborate with peers, experts, and others to contribute to a content-related knowledge base by using technology to compile, synthesize, produce, and disseminate information, models, and other creative works

### **Strand 6 – Technology problem-solving and decision-making tools**

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**Standard 5 – Students will use technology resources for solving problems and making informed decisions and will employ this technology in the development of strategies for solving problems in the real world.**

**Benchmarks - By the end of Grade 12, students will:**

- 6 – 1 Routinely and efficiently use online information resources to meet needs for collaboration, research, publications, communications, and productivity
- 6 – 2 Investigate and apply expert systems, intelligent agents, and simulations in real-world situations
- 6 – 3 Collaborate with peers, experts, and others to contribute to a content-related knowledge base by using technology to compile, synthesize, produce, and disseminate information, models, and other creative works