



**12TH PROVINCIAL SKILLS COMPETITION – SCOPE DOCUMENT
2009 SKILLS CANADA NEWFOUNDLAND AND LABRADOR**

**INTERNET: WEB SITE DEVELOPMENT
SECONDARY AND POST-SECONDARY LEVELS**

PURPOSE OF THE CHALLENGE	DURATION: 4.5 HOURS
<p>To provide an opportunity for students to demonstrate their ability to design a dynamic website.</p>	
SKILLS AND KNOWLEDGE TO BE TESTED	
<p>Note: Scope is subject to change due to equipment availability and/or at the discretion of the technical committee chairperson. Visit Skills Newfoundland and Labrador for a copy of the scope. http://www.skillscanada-nfld.com</p> <p>Competitors will complete a written exam testing their knowledge of XHTML 1.0, PHP, MySQL and CSS levels 1 and 2. Competitors will also be tested on their ability to develop a web site for display on an Internet server via a web browser to a minimum XHTML standard 1.0. Competitors will produce database driven web site utilizing PHP (the project information will be provided at the competition). Competitors are expected to have a professional attitude and general good disposition.</p> <p>In case of a situation in which the competitors are tied in total competition points, the tie breaking procedure will be the responsibility of the judges:</p> <ul style="list-style-type: none"> • Judges will remove the exam marks and base the evaluation on the web sites. 	



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EQUIPMENT, TOOLS, MATERIALS, CLOTHING	
<p>Clothing Requirements</p> <p>The dress for this event is “business casual.” No jeans or cut-off shorts.</p>	
<p>Equipment/software supplied by the Committee:</p> <p>Equipment:</p> <ul style="list-style-type: none"> • Pentium PC running Windows XP-Pro • Most recent version of Firefox and MS Internet Explorer • Internet server: <ul style="list-style-type: none"> ▪ PHP ▪ MySQL database ▪ phpMyAdmin <p>WYSIWYG Programs:</p> <ul style="list-style-type: none"> • Microsoft FrontPage XP • Adobe DreamWeaver CS3 <p>Text Editors:</p> <ul style="list-style-type: none"> • Homesite 5.5 • EditPlus • Textpad • Rapid PhP <p>Image Programs:</p> <ul style="list-style-type: none"> • Adobe Photoshop CS3 • Adobe Illustrator CS3 • Adobe Flash CS3 • Adobe Fireworks CS3 	<p>Other:</p> <ul style="list-style-type: none"> • Detailed written instructions. • Microsoft Office XP Pro • Additional freeware fonts installed on workstation • Stock photos and documentation will be located in a file on the desktop • PHP/MySQL Reference Materials (provided) <p>Note: Absolutely no additional material or software allowed. There is no Internet access for competitors during the competition. Walk/Discman will be permitted for competitors (Not to be used during the exam), but CD-ROM drives will be off-limits.</p> <p>Competitors are not allowed to bring their own computer.</p>

POINT BREAKDOWN / 1000 TOTAL		
Exam:	100	
Visual Design:	400	
Technical Elements:	300	Judge : _____
Content:	200	Competitor: _____
Total: 1000		

Technical Committee Members

Rod Lundrigan (rodneylundrigan@esdnl.ca)
Dave Gill (davidgill@esdnl.ca)

Brian Manuel (brian.manuel@cna.nl.ca)
Stephen Mercer (mercerc.stephen@gmail.com)

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JUDGING CRITERIA	
Exam – 30 minutes	
<ul style="list-style-type: none"> • A written exam will be administered testing you on your knowledge of XHTML 1.0, PHP, MySQL and CSS level 1 and 2. The exam will be comprised of 50 multiple choice questions. 	
	Max Score: /100

Visual Design	
<p>Navigation:</p> <ul style="list-style-type: none"> • Links are easily identifiable and their use is intuitive. Users can move easily both forward and backward through the site. • Path to desired information is clear. Use of menus, image maps, input types, etc. directs visitors to relative information. • Site interactivity is good. Links, buttons, check boxes, text boxes are used to give the user a high level of engagement. 	/100
<p>Layout:</p> <ul style="list-style-type: none"> • Content (text and graphics) are organized in a way to promote readability. White space and other devices are used to make the page easy to read or view. • Page format is appropriate. Pages are not inordinately long. Scrolling is kept to an acceptable level. Use of tables or other windowing devices does not ‘clutter’ the site. 	/150
<p>Aesthetics:</p> <ul style="list-style-type: none"> • Site is aesthetically appealing. Use of background and foreground color promotes readability. • Graphic size, positioning and type enhance text and navigability. • Site visual theme is consistent. There are no jarring changes in layout, font usage, color, etc. as the visitor moves from page to page. • Visual design is creative. The visual design has a high level of originality. 	/150
	Max Score: /400

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Content (minimum 3 pages)	Poor	Excellent
Purpose of site is clearly identified. Titles, logos, headings, etc. communicate site intents and objectives.		/100
Site content is organized in a logical and useful manner. Site content moves from introductory or general content to specific or detailed content.		/100
Site content supports the intention of the site. The information is useful.		/50
Graphic and text work together to realize the objectives of the site. Graphics are not used for their own sake.		/50
Content is creative. The content is presented in an interesting and original manner.		/50
Required elements of code are presented based on the project presented on the first day.		/50
	Subtotal:	/400
	Max Score = Subtotal / 2	/200

Technical Elements – Quality of Programming Structure	Poor	Excellent
<ul style="list-style-type: none"> Code will be validated to XHTML 1.0 compliant utilizing DreamWeaver MX 2004 	1 2 3 4 5	
Flash Component <ul style="list-style-type: none"> Content is presented in a interesting and logical manner. Content captivates the end user. File size is appropriate for dial-up access. 	2 4 6 8 10	
Build –up a database based on information provided.	1 2 3 4 5	
Write a PHP script or client-side script which validates a form.	1 2 3 4 5	
Write a PHP script that reads, writes, and deletes entries to a MySQL database.	2 4 6 8 10	
Write a PHP script that creates dynamic web pages based on the information in the database.	1 2 3 4 5	
Design a site that allows for easy updates and maintenance.	2 4 6 8 10	
Page Layout Do not use the FONT tag, instead use style sheets to control layout and presentation. Use relative instead of exact units in markup and style sheets (e.g., have a 100% wide table rather than one which is 600 pixels wide. This way the page will display better when the window size of the browser changes). Use markup properly (e.g., do not use BLOCKQUOTE for text indentation. It is intended to markup a quote and if misused may lead to misinterpretation by some browsers).	1 2 3	
Forms Ensure the label for a form control (e.g., radio button) appears immediately before the control on the page. If there is more than one control per line, ensure the label appears directly before the control on the same line. Associate labels explicitly with their controls. You can achieve this by using the LABEL tag (e.g., LABEL for="user" accesskey="U">name</LABEL> <INPUT type="text" id="user"> The accesskey attribute is another way of improving accessibility. If it assigned, in this case to "U" then when alt+U is pressed, the focus will go to the associated label (Internet Explorer specific) which in turn gives focus to the associated control.	1 2 3	
	Subtotal :	/56



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Technical Elements – Quality of Programming Structure	Poor	Excellent
	Subtotal x 5.36 = Max Score:	/300

Exam:	/100
Visual Design:	/400
Technical Elements :	/300
Content :	/200
TOTAL :	/1000