

## JavaScript – CPL Skills Demonstration Project

Due: 4 weeks from start of CPL request.

Total Points: 300

## CPL – Skills Demonstration Project

- Request CPL via your Admissions Advisor or Academic Advisor.
- Website address and FTP credentials will be sent via email.
- Upload your HTML, CSS and JavaScript files to the supplied NWTC web server.
- The website (FTP and HTTP) can be accessed from off campus.
- You will work on this project independently and not in the NWTC Assessment Center.
- You will have 4 weeks to complete the Skills Demonstration Project.
- Once you have completed the project submit the address to the supplied NWTC website.
- Then notify Robert Buchholz [robert.buchholz@nwtc.edu](mailto:robert.buchholz@nwtc.edu) that the project is ready for grading.
- Do not upload files via Blackboard your files will be reviewed on the supplied NWTC website.

## Summary

Create a website with a main home page along with individual pages for each demonstration of a JavaScript example. Develop your own HTML and CSS for the structure and design. The main home page will have summaries and links to each individual page. A few of the required pages have example pages listed in the rubric. The Google Maps page will be built using the supplied Google Maps API key.

## Grading Rubric

### All Pages

01.	<b>20</b>	<b>Create Your Own HTML and CSS</b> Build At: /javascript/final-project/
02.	<b>20</b>	<b>Valid HTML and Valid CSS</b> <ul style="list-style-type: none"><li>◦ No Syntax Errors</li><li>◦ Plugin CSS errors are okay</li><li>◦ Footer – links to HTML and CSS validation results</li></ul>
03.	<b>20</b>	<b>Test if JavaScript working</b> <ul style="list-style-type: none"><li>◦ Use class no-js on HTML element</li><li>◦ If js is working remove the no-js class</li><li>◦ If not working build a message using HTML and CSS</li></ul>

		<ul style="list-style-type: none"> <li>◦ Show clear message JavaScript is Required</li> </ul>
04.	20	<b>No JavaScript Errors</b>
05.	20	<b>Load jQuery via Content Delivery Network (CDN)</b> <ul style="list-style-type: none"> <li>◦ Provide local version of jQuery if it does not load from CDN</li> <li>◦ Use short hand version of <code>\$(document).ready(function() {});</code></li> </ul>
06.	20	<b>Use console.group</b> <ul style="list-style-type: none"> <li>◦ Show your Name</li> <li>◦ Show version number of jQuery (from the jQuery object)</li> </ul>
07.	20	<b>Navigation – links to each page</b> <ul style="list-style-type: none"> <li>◦ Documentation – May be used as your Home page.</li> <li>◦ Plugin 1 – Validation</li> <li>◦ Plugin 2 – Your Choice</li> <li>◦ Tabs</li> <li>◦ JSON</li> <li>◦ AJAX</li> <li>◦ Map</li> </ul>
08.	20	<b>H1 and Title – clearly indicate what each page is doing</b>

## Individual Pages

01.	20	<b>Documentation Page</b> <ul style="list-style-type: none"> <li>◦ <b>jQuery Plugins</b> – Information About Plugins Used <ul style="list-style-type: none"> <li>◦ Plugin Name</li> <li>◦ Plugin URL – as a functioning link.</li> <li>◦ Explain what is the plugin designed to do.</li> <li>◦ Describe how you are using the plugin.</li> <li>◦ Link to the page you are using the plugin on.</li> </ul> </li> <li>◦ <b>AJAX, JSON and Tabs</b> <ul style="list-style-type: none"> <li>◦ Explain what content/data is loading.</li> <li>◦ Link to the actual page.</li> </ul> </li> </ul>
02.	20	<b>jQuery Plugin: 1 of 2 (Validation Plugin)</b> <ul style="list-style-type: none"> <li>◦ Minimum 4 inputs (one email: required and check if valid)</li> <li>◦ Minimum 2 Radio Group</li> <li>◦ Minimum 2 Selects</li> <li>◦ Minimum 6 Check Boxes (must choose at least 2)</li> <li>◦ Minimum 1 Textarea</li> <li>◦ All controls are required and must be filled out</li> <li>◦ Add novalidate attribute to the form element <ul style="list-style-type: none"> <li>◦ This will prevent browser from validating the form.</li> </ul> </li> </ul>
03.	20	<b>jQuery Plugin: 2 of 2 (Find and use a new jQuery plugin)</b> <ul style="list-style-type: none"> <li>◦ Not <u>jQuery UI</u> or <u>jQuery Mobile</u></li> <li>◦ Must use your own content – not content from the jQuery Plugin author's demo.</li> </ul>

04.	20	<b>Convert the Chapter 11 Tabs demo into a jQuery plugin and use on a page.</b> <ul style="list-style-type: none"> <li>◦ <a href="#">Tabs Example (not a plugin)</a></li> <li>◦ <a href="#">Accordion Example (converted into a plugin)</a></li> </ul>
05.	20	<b>Create and Load JSON data on a page.</b> <ul style="list-style-type: none"> <li>◦ Must use a 3rd party JSON API source</li> <li>◦ Must load at least 4 items</li> <li>◦ Each item must have a least 3 values</li> <li>◦ Examples:  <a href="https://randomuser.me">https://randomuser.me</a>, <a href="https://www.balldontlie.io">https://www.balldontlie.io</a>, <a href="https://thecatapi.com">https://thecatapi.com</a>,  <a href="#">A Curated List of 100 Cool APIs</a> </li> </ul>
06.	20	<b>Use jQuery load method to add content to a page via AJAX.</b>
07.	20	<b>Create a Google Map based on users location</b> <ul style="list-style-type: none"> <li>◦ Must Load the Map Page Using HTTPS</li> <li>◦ href="https://YOURSITE.edu/javascript/final-project/google-map/index.html"</li> <li>◦ Use the Google Map API to create the map <ul style="list-style-type: none"> <li>◦ API Key: AlzaSyDrq6itjJPber61m46hdD6xu_fwZ5zvnRQ</li> </ul> </li> <li>◦ Request the users location</li> <li>◦ Build the map based on users location</li> <li>◦ Place a custom map pin graphic based the users location.</li> <li>◦ See Demo: <a href="#">s10 – geolocation.html</a></li> </ul>