XML LEARNING OBJECTIVES

1. Understand the basic syntax rules of XML, their purpose, and their significance. Be able to articulate the principle of "separation of presentation and data.' Create a basic XML document that has a practical military purpose.

2. Be able to articulate the practical purpose of this XML document.

3. Create an XML Schema that has a practical military purpose.

4. Validate the XML Schema using a W3C compliant application.

5. Be able to articulate the purpose and importance of XML validation.

6. Use an automated method to produce an XML document that is compliant to an XML Schema.

7. Be able to describe the various ways that XML can be created and validated using common W3C compliant tools.

8. Create an XML document that incorporates and validates against multiple XML Schemas using XML Namespace declarations and syntax.

9. Be able to articulate the purpose and application of XML Namespaces.

10. Write a transformation script using the Extensible Stylesheet Language for Transformation (XSLT) that produces an XML document based on an XML Schema.

11. Be able to articulate the purpose and potential of XML transformation.

12. Write an XSLT script to transform an XML document that is compliant with one schema to an XML document that is compliant with another Schema.

13. Be able to recognize and articulate the purpose of data-centric XML.

14. Write an XSLT script to transform an XML document that is compliant with an XML Schema to one that is compliant with the W3C XHTML Schema specification for viewing in a web browser.

15. Be able to recognize and articulate the purpose of presentation-centric XML.

16. Use a web server to create, validate, transform, query and present XML data.

17. Be able to articulate the role and potential of XML use in a professional environment.

18. Be able to articulate the role of XML in standards based architectures.