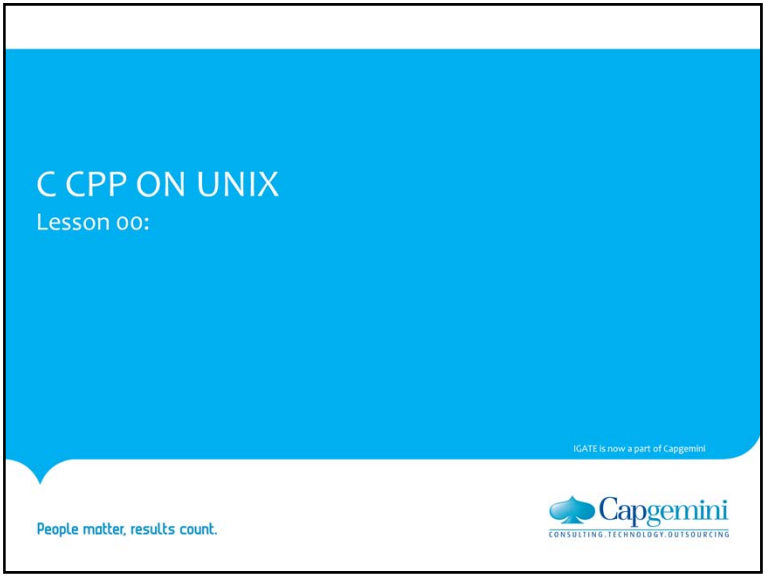

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Document History

Date	Course Version No.	Software Version No.	Developer / SME	Change Record Remarks
Oct -2009	1.0		Anitha Ramesh	
May-2011	2.0		Rathnajothi Perumalsamy	Revamp/Refinement

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Course Goals and Non Goals

- **Course Goals**
  - To learn Program development in Unix environment
  - Programming in C/C++
  - Debugging C/C++ Program
  - Make file build utility
- **Course Non Goals**
  - Does not cover Linux Internal Programming

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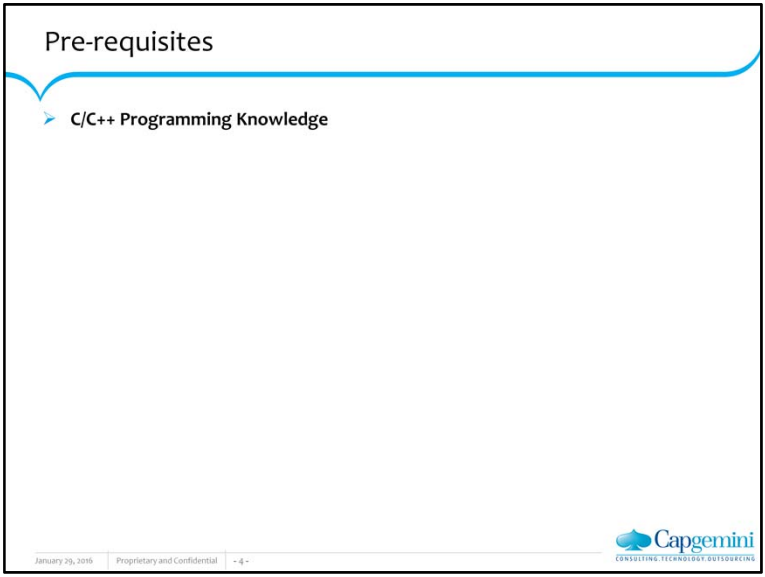
Pre-requisites
C/C++ Programming Knowledge
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Intended Audience

- **Developers/Programmers**

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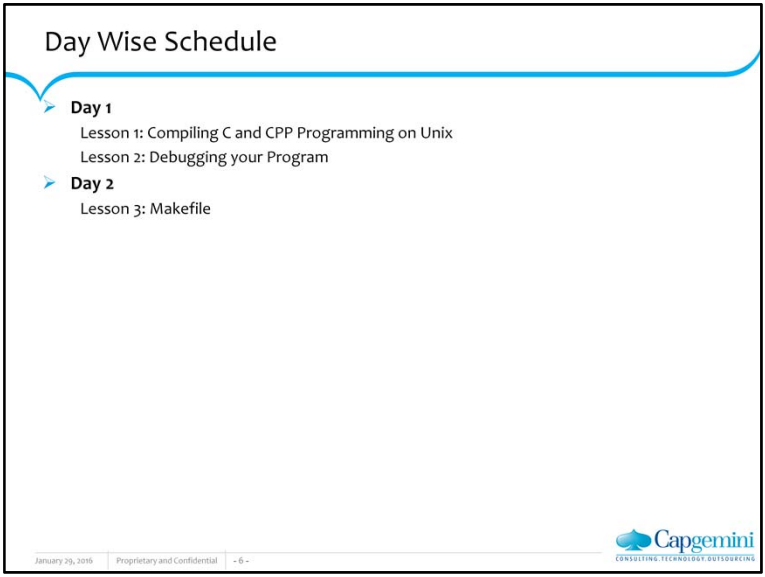
Day Wise Schedule
Day 1
Lesson 1: Compiling C and CPP Programming on Unix
Lesson 2: Debugging your Program
Day 2
Lesson 3: Makefile
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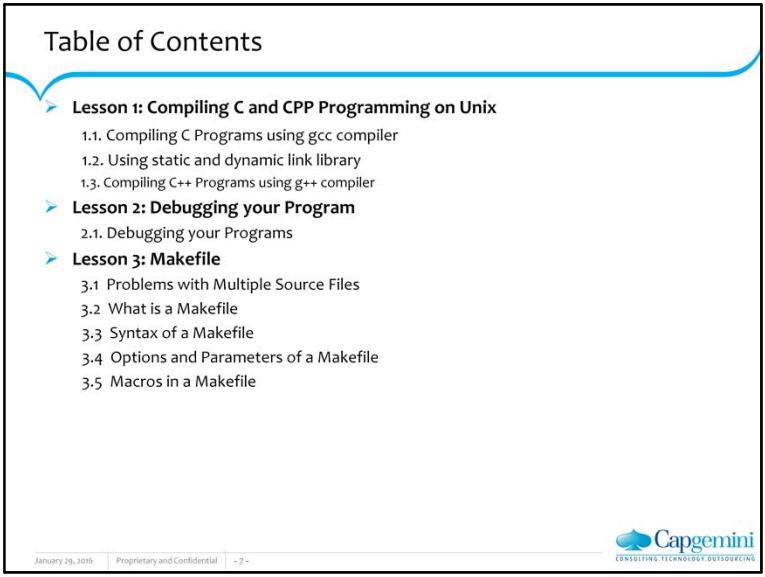
Table of Contents
Lesson 1: Compiling C and CPP Programming on Unix
1.1. Compiling C Programs using gcc compiler
1.2. Using static and dynamic link library
1.3. Compiling C++ Programs using g++ compiler
Lesson 2: Debugging your Program
2.1. Debugging your Programs
Lesson 3: Makefile
3.1 Problems with Multiple Source Files
3.2 What is a Makefile
3.3 Syntax of a Makefile
3.4 Options and Parameters of a Makefile
3.5 Macros in a Makefile
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References

- Linux application development – Michael K. Johnson
- Managing Projects with GNU make, 3rd Edition - Robert Mecklenburg
- http://www.network-theory.co.uk/docs/gccintro/gccintro_4.html

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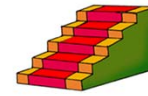
Next Step Courses (if applicable)

- Linux Internals



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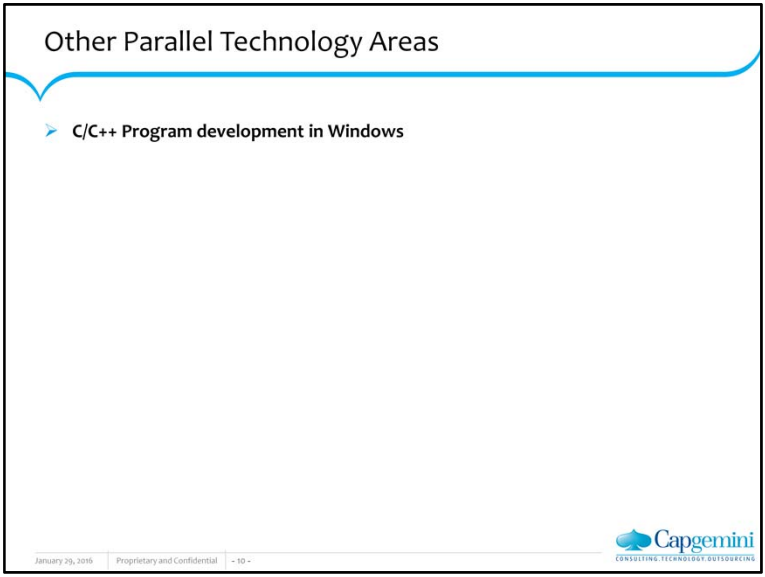
Other Parallel Technology Areas
C/C++ Program development in Windows
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