OO Analysis and Design with UML and USDP v2.3 Trainer Instructions and Course Plan

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Changes since the previous release of the course

See www.clearviewtraining.com for details. Look at the course change log.

General

I've tried to incorporate all Zuhlke feedback - if there is anything I have missed, please let me know.

Big changes this time - complete conversion to UML 2. See www.clearviewtraining.com for details.

Course timing

The course should run for 4 days, starting at 09:00 and finishing at 17:30 each day. There should be a 15 minute break for coffee in the morning, a 1 hour break for lunch and a 15 minute break for tea in the afternoon. All other breaks are at the discretion of the trainer.

Note: I have also given this course *very* successfully as a 5-day course. This allows much more time for Lab work and the students can produce very detailed solutions in the extra time. There is also more time for discussion.

Course timings for the 4-day course are based on an average of 3 minutes per slide. Although this is a generally accepted average for training courses, the UML course has a lot of new concepts, and so I have allowed some contingency time each day.

If you seem to be running out of time (if the students are having difficulty grasping some of the concepts for example) then extra time for the lectures can be very easily obtained:

- Some sections are marked as advanced these may be cut or given to the delegates to read off line.
- Time for the Labs may be reduced. My philosophy for Lab work is that there should always be *plenty* of work for even the most able students. Impress on the students that they must be rigorous about timekeeping in the labs (in fact this is an important part of the Lab), and it is always better to move on to the next section, and come back later if there is time, than to get stuck. I sometimes make a joke of it and play the role of the tyrannical project manager who sets challenging timeboxes, or talk about delivery in "Internet Time"!
- You may optionally do a 15 minute daily review if you have time.

- Combine the coffee/tea breaks with the Labs. Students can quickly get a drink and then start the Lab work. This can give you an extra half hour per day.
- Give extra time for the exercises by skipping some of the discussions. Please *be careful* with this strategy, as the discussions are important!

Suggested timings

Suggested timings for the 4-day course are shown on the next page. These timings only *suggest* times for coffee, lunch and tea - the actual time and duration of these breaks is up to the trainer. The trainer should also make short "comfort breaks" during the longer lecture sessions.

OOAD with UML and UP										
	Suggeste	ed timeta	ble							
Start time		9:00 prefe	rred							
Coffee	0:15									
Lunch	1:00									
Tea	0:15									
Finish time	17:30									
Time per slide	3 mins									
Section name	Start slide	End slide	Number of slides	Duration	Start time	End time				
Day 1										
OO Analysis and Design with UML 2 and UP	1	1	1	00:03	9:30	9:33				
Introduction	2	11	10	00:30	9:33	10:03				
Coffee					10:03	10:15				
UML principles	12	32	21	01:03	10:15	11:18				
Introduction to the Unified Process	33	49	17	00:51	11:18	12:09				
Lunch					12:09	13:00				
Requirements - introduction	50	59	10	00:30	13:00	13:30				
Capturing requirements lab					13:30	14:30				
Requirements – use case modelling	60	82	23	01:09	14:30	15:39				
Tea					15:39	15:53				
Requirements – advanced use case modelling	83	95	13	00:39	15:53	16:32				
Use case modeling lab					16:32	17:30				
Advanced use case modeling lab (if time)										
Day 2										
Analysis - introduction	96	99	4	00:12	9:30	9:42				
Analysis - objects and classes	100	118		00:57	9:42	10:39				
Coffee				00.0.	10:39					
Analysis - finding analysis classes	119	127	9	00:27	10:53	11:20				
Finding analysis classes lab	_				11:20	12:30				
Lunch					12:30	13:30				
Analysis - relationships	128	146	19	00:57	13:30	14:27				
Analysis - dependencies	147	154			14:27	14:51				
Tea					14:51	15:06				
Analysis – inheritance and polymorphism	155	165	11	00:33	15:06	15:39				
Analysis - packages	166	175	10	00:30	15:39	16:09				
Finding relationships lab					16:09	17:30				

Day 3						
Analysis - use case realization	176	196	21	01:03	9:30	10:33
Analysis - advanced use case realization	197	202	6	00:18	10:33	10:51
Coffee					10:51	11:06
Use case realization lab					11:06	12:30
Lunch					12:30	13:30
Analysis - activity diagrams	203	219	17	00:51	13:30	14:21
Analysis - advanced activity diagrams	220	230	11	00:33	14:21	14:54
Design - introduction	231	237	7	00:21	14:54	15:15
Design - classes	238	253	16	00:48	15:15	16:03
Tea					16:03	16:15
Design - refining analysis relationships	254	270	17	00:51	16:15	17:06
Design - interfaces and components	271	287	17	00:51	17:06	17:57
Day 4						
Design - use case realization	288	299	12	00:36	9:30	10:06
Coffee					10:06	10:22
Design model lab					10:22	11:15
Design - state machines	300	320	21	01:03	11:15	12:18
Lunch					12:18	13:18
Design - advanced state machines	321	330	10	00:30	13:18	13:48
Statecharts lab					13:48	14:00
Implementation - introduction	331	335	5	00:15	14:00	14:15
Implementation - deployment	336	347	12	00:36	14:15	14:51
Tea					14:51	15:05
Deployment and implementation lab					15:05	16:00
Course summary	348	351	4	00:12	16:00	16:12