

Submitted by the WLTP Technical Secretary	Infomral Document No. WLTP-04-04 (4 th WLTP meeting, 13 January, 2010)
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Next Actions of WLTP Projects

(Worldwide Harmonized Light-Duty Test Procedure)

1. Overall Schedule during the Phase I

refer to ANNEX of this document (including DTP and gtr TEXT group work)

DTP : Development of Test Procedure

2. Milestones

Month /Year	Session	WLTP -IG	DHC	DTP	gtr TEXT	Decision
January 2010	59 th GRPE	X	X			Adopt WLTC methodology (WLTC : <u>W</u> orldwide harmonized <u>L</u> ight duty driving <u>T</u> est <u>C</u> ycle) Start in-use data collection
March or April 2010	Interim subgroup			X		Start DTP work
June 2010	60 th GRPE	X	X	X		
September 2010	Interim subgroup		X			Review and check the initial data collection Start the initial WLTC development
January 2011	61 st GRPE	X	X	X	X	More data or progress with cycle development Start gtr TEXT group work
April 2011	Interim subgroup		X	X		Propose initial WLTC Start validation Test 1
June 2011	62 nd GRPE	X	X	X	X	
September 2011	Interim subgroup		X	X		Propose initial new test procedure Start Validation 2, Confirmation and Round Robin
January 2012	63 rd GRPE	X	X	X	X	
June 2012	64 th GRPE	X	X	X	X	Adopt the modified WLTC and new test procedure Propose the informal gtr text (phase I)
January 2013	65 th GRPE	X	X	X	X	
June 2013	66 th GRPE	X	X	X	X	Propose the formal gtr text (phase I)
November 2013	161 st WP.29					Adopt gtr for WLTP

The schedule of interim subgroup meeting subject to change. The chairperson of each technical subgroup will arrange and notice to member.

ANNEX : Phase I Work Schedule (1)

Items	2009				2010				2011				2012				2013			
	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl
Phase I Work																				
14 Worldwide harmonized driving cycle																				
14(a) in use data collection																				
Preparation																				
review currently available data																				
selection of test vehicles / drivers																				
selection of areas, roadtypes, test conditions and routes																				
planning																				
data collection																				
data check and review																				
statistical data																				
14(b) data analysis methodology																				
initial development																				
modification																				
14(c) Develop new driving cycle																				
development of initial mode																				
mode structure																				
mode duration																				
weighting factor (urban, rural, motorway)																				
number of short trip/idling																				
gearshift points																				
OBD impact																				
modification																				
	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl
	2009				2010				2011				2012				2013			

ANNEX : Phase I Work Schedule (2)

Items	2009				2010				2011				2012				2013			
	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl
15. Test Procedure Development																				
Terminology																				
15-(a) Test procedure																				
emission constituents																				
Energy consumption /CO ₂																				
inertia weight class																				
road load measurement																				
electric load																				
Pre conditioning / state of charge																				
calculation formulae																				
hybrid vehicle (HEV, PHEV)																				
electric vehicle (BEV, FCV)																				
Alternative fuelled vehicles (FFV, CNG, LPG)																				
gear shift points																				
List of required reference fuel																				
15-(b) Test Equipment																				
chassis dynamometer																				
analyser/CVS/tunnel																				
others (fan, cyclinder gas, SHED,)																				
minimum investment																				
15-(C) Final Modification																				
weighting factor (urban, rural, motorway)																				
arrangement of short trip/idling																				
gearshift points																				
cold/hot start																				
final modification																				
	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl
	2009				2010				2011				2012				2013			

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ANNEX : Phase I Work Schedule (3)

Items	2009				2010				2011				2012				2013			
	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl
18 Validation Tests																				
preparation																				
test items																				
test vehicle matrix																				
procure test vehicles																				
test site preparation																				
Validation 1 (current test procedure)																				
Validation 2 (new test procedure)																				
validation test analysis																				
19 Confirmation test																				
preparation																				
test items																				
test vehicle matrix																				
procure test vehicles																				
test site preparation																				
confirmation tests																				
20 Round Robin tests																				
test items																				
test vehicle matrix																				
procure test vehicles																				
Round Robin tests																				
correlation between labs																				
21 development of gtr Text																				
informal gtr I text																				
formal gtr I text																				
impact assessment																				
	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl	1. Qtl	2. Qtl	3. Qtl	4. Qtl
	2009				2010				2011				2012				2013			