

N°	Task name	Duration (days)	Start date (dd/mm/yy)	Finish date (dd/mm/yy)	Tri 1, 2017												Tri 2, 2017												Tri 3, 2017												Tri 4, 2017												Tri 1, 2018												Tri 2, 2018												Tri 3, 2018											
					Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug																																																			
1	ProtoDUNE-DP	343 days	01/12/2016	09/04/2018																																																																																				
2	Cryostat preparation	93 days	08/03/2017	14/07/2017																																																																																				
3	Cryostat with penetrations is ready	56 days	08/03/2017	24/05/2017																																																																																				
4	CRB and insertion rail preparation	10 days	25/05/2017	07/06/2017																																																																																				
5	CRB ready		07/06/2017	07/06/2017																																																																																				
6	Internal cryogenic piping	15 days	19/06/2017	07/07/2017																																																																																				
7	Floor installation	5 days	10/07/2017	14/07/2017																																																																																				
8	Cryostat is ready for CRP & SPFT installation		14/07/2017	14/07/2017																																																																																				
9																																																																																								
10	CRP Production & Installation	193 days	10/04/2017	17/01/2018																																																																																				
11	CR185 material order	1 day	10/04/2017	10/04/2017																																																																																				
12	Clean Room Material reception	30 days	11/04/2017	22/05/2017																																																																																				
13	CR185 preparation	6 days	23/05/2017	30/05/2017																																																																																				
14	Furnishing integration	2 days	23/05/2017	24/05/2017																																																																																				
15	Initial cleaning	2 days	25/05/2017	26/05/2017																																																																																				
16	Toolings preparation	2 days	29/05/2017	30/05/2017																																																																																				
17	CRP assembly in CR185	143 days	31/05/2017	15/12/2017																																																																																				
18	CRP #1	79 days	31/05/2017	18/09/2017																																																																																				
19	Parts reception in CR185	10 day	31/05/2017	13/06/2017																																																																																				
20	Supporting structure assembly	1 day	14/06/2017	14/06/2017																																																																																				
21	Invar frame on supporting stuc	4 hr	15/06/2017	15/06/2017																																																																																				
22	G10 assembly on optical table	1 day	14/06/2017	14/06/2017																																																																																				
23	G10 and Invar connection	1 day	15/06/2017	16/06/2017																																																																																				
24	LAS assembly on CRP	4 days	21/08/2017	24/08/2017																																																																																				
25	Instrumentation assembly	2 days	25/08/2017	28/08/2017																																																																																				
26	Grid weaving	5 days	29/08/2017	04/09/2017																																																																																				
27	Grid Installation	5 days	29/08/2017	04/09/2017																																																																																				
28	Planarity tuning	4 days	05/09/2017	08/09/2017																																																																																				
29	Electrical Tests	5 days	11/09/2017	15/09/2017																																																																																				
30	Packing in transport box	1 day	18/09/2017	18/09/2017																																																																																				
31	CRP #2	21,57 days	18/09/2017	17/10/2017																																																																																				
44	CRP #3	21,57 days	17/10/2017	16/11/2017																																																																																				
57	CRP #4	21,57 days	16/11/2017	15/12/2017																																																																																				
58	Parts reception in CR185	1 day	16/11/2017	17/11/2017																																																																																				
59	Supporting structure assembly	1 day	17/11/2017	20/11/2017																																																																																				
60	Invar frame on supporting stuc	4 hr	20/11/2017	20/11/2017																																																																																				
61	G10 assembly on optical table	1 day	17/11/2017	20/11/2017																																																																																				
62	G10 and Invar connection	1 day	20/11/2017	21/11/2017																																																																																				
63	LAS assembly on CRP	4 days	21/11/2017	27/11/2017																																																																																				
64	Instrumentation assembly	1 day	27/11/2017	28/11/2017																																																																																				
65	Grid weaving	5 days	28/11/2017	05/12/2017																																																																																				
66	Grid Installation	5 days	28/11/2017	05/12/2017																																																																																				
67	Planarity tuning	2 days	05/12/2017	07/12/2017																																																																																				
68	Electrical Tests	5 days	07/12/2017	14/12/2017																																																																																				
69	Packing in transport box	1 day	14/12/2017	15/12/2017																																																																																				
70	LAS Supply	136 days	15/05/2017	20/11/2017																																																																																				
71	Green Light full LEM production	1 day	05/06/2017	05/06/2017																																																																																				
72	Administrative time to start full Production	20 days	06/06/2017	03/07/2017																																																																																				
73	LAS Firm_A Production Validation	30 days	15/05/2017	23/06/2017																																																																																				
74	LEM production (Preserie 6 LEM)	20 days	15/05/2017	09/06/2017																																																																																				
75	LEM Preserie Tests	10 days	12/06/2017	23/06/2017																																																																																				
76	LEM Production Validated		23/06/2017	23/06/2017																																																																																				
77	12 LAS Firm_A production	20 days	26/06/2017	21/07/2017																																																																																				
78	6 LEM Batch production	5 days	26/06/2017	30/06/2017																																																																																				
79	6 LEM Batch production	5 days	03/07/2017	07/07/2017																																																																																				
80	12 LAS Processing at Saclay	5 days	10/07/2017	14/07/2017																																																																																				
81	12 LAS send to CERN	1 day	17/07/2017	17/07/2017																																																																																				
82	12 LAS Assembly at CERN	4 days	18/07/2017	21/07/2017																																																																																				
83	12 LAS Firm_A production	20 days	10/07/2017	04/08/2017																																																																																				
89	12 LAS Firm_A production	20 days	24/07/2017	18/08/2017																																																																																				
95	second half at Firm_A		04/08/2017	04/08/2017																																																																																				
96	12 LAS Firm_A production	20 days	07/08/2017	01/09/2017																																																																																				
102	12 LAS Firm_A production	20 days	21/08/2017	15/09/2017																																																																																				
108	12 LAS Firm_A production	20 days	04/09/2017	29/09/2017																																																																																				
109	6 LEM Batch production	5 days	04/09/2017	08/09/2017																																																																																				
110	6 LEM Batch production	5 days	11/09/2017	15/09/2017																																																																																				
111	12 LAS Processing at Saclay	5 days	18/09/2017	22/09/2017																																																																																				
112	12 LAS send to CERN	1 day	25/09/2017	25/09/2017																																																																																				
113	12 LAS Assembly at CERN	4 days	26/09/2017	29/09/2017																																																																																				
114	LAS Firm_B Production Validation	30 days	04/07/2017	14/08/2017																																																																																				
115	LEM production (Preserie 6 LEM)	20 days	04/07/2017	31/07/2017																																																																																				
116	LEM Preserie Tests	10 days	01/08/2017	14/08/2017																																																																																				
117	LEM Production Validated		14/08/2017	14/08/2017																																																																																				
118	12 LAS Firm_B production	20 days	15/08/2017	11/09/2017																																																																																				
119	6 LEM Batch production	5 days	15/08/2017	21/08/2017																																																																																				
120	6 LEM Batch production	5 days	22/08/2017	28/08/2017																																																																																				
121	12 LAS Processing at Saclay	5 days	29/08/2017	04/09/2017																																																																																				
122	12 LAS send to CERN	1 day	05/09/2017	05/09/2017																																																																																				
123	12 LAS Assembly at CERN	4 days	06/09/2017	11/09/2017																																																																																				
124	12 LAS Firm_B production	20 days	29/08/2017	25/09/2017																																																																																				
130	12 LAS Firm_B production	20 days	12/09/2017	09/10/2017																																																																																				
136	12 LAS Firm_B production	20 days	26/09/2017	23/10/2017																																																																																				
142	12 LAS Firm_B production	20 days	10/10/2017	06/11/2017																																																																																				
148	12 LAS Firm_B production	20 days	24/10/2017	20/11/2017																																																																																				
149	6 LEM Batch production	5 days	24/10/2017	30/10/2017																																																																																				
150	6 LEM Batch production	5 days	31/10/2017	06/11/2017																																																																																				
151	12 LAS Processing at Saclay	5 days	07/11/2017	13/11/2017																																																																																				
152	12 LAS send to CERN	1 day	14/11/2017	14/11/2017																																																																																				
153	12 LAS Assembly at CERN	4 days	15/11/2017	20/11/2017																																																																																				
154	CRP installation in the cryostat	77 days	19/09/2017	17/01/2018																																																																																				
155	CRP #1 Installation in Cryostat	11 days	19/09/2017	03/10/2017																																																																																				
156	CRP Transportation from Meyr	1 day	19/09/2017	19/09/2017																																																																																				
157	Unpacking and preparation in	1 day	20/09/2017	20/09/2017																																																																																				
158	Insertion in the Cryostat	1 day	21/09/2017	21/09/2017																																																																																				
159	Metrology & Connections oper	5 days	22/09/2017	28/09/2017																																																																																				
160	Electrical and signal tests	3 days	29/09/2017	03/10/2017																																																																																				
161	CRP is ready		03/10/2017	03/10/2017																																																																																				
162	CRP #2 Installation in Cryostat	11 days	17/10/2017	01/11/2017																																																																																				
169	CRP #3 Installation in Cryostat	11 days	16/11/2017	01/12/2017																																																																																				
176	CRP #4 Installation in Cryostat	11 days	15/12/2017	15/01/2018																																																																																				

Projet : ProtoDUNE-DP-eng15
Date : 15/04/2017

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					Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
177	CRP Transportation from Meyri	1 day	15/12/2017	18/12/2017																					
178	Unpacking in the CRB	1 day	18/12/2017	19/12/2017																					
179	Insertion in the Cryostat	1 day	19/12/2017	20/12/2017																					
180	Metrology & Connections oper	5 days	20/12/2017	10/01/2018																					
181	Electrical and signal tests	3 days	10/01/2018	15/01/2018																					
182	CRP is ready		15/01/2018	15/01/2018																					
183	CRP lateral position adjustment (warm conditions)	2 days	15/01/2018	17/01/2018																					
184																									
185																									
186	Chimneys and feedthroughs	80 days	05/06/2017	22/09/2017																					
187	SPFT Production & Installation	33 days	05/06/2017	19/07/2017																					
188	SPFT production	30 days	05/06/2017	14/07/2017																					
189	SPFT Pre-Assembly	2 days	17/07/2017	18/07/2017																					
190	SPFT Assembly on Cryostat Roof	1 day	19/07/2017	19/07/2017																					
191	Signal Feedthrough SGFT	30 days	19/06/2017	28/07/2017																					
192	TANK_INST	20 days	31/07/2017	25/08/2017																					
193	CRP_INST	20 days	28/08/2017	22/09/2017																					
194																									
195	Drift Cage Production and Installation	235 days	01/05/2017	06/04/2018																					
196	Mechanical Test assembly in UTA	89 days	01/05/2017	31/08/2017																					
197	PCB production and testing in cold	87 days	01/06/2017	29/09/2017																					
198	Assembly in CRB	24 days	20/12/2017	06/02/2018																					
199	3 submodules of column 1	3 days	20/12/2017	08/01/2018																					
200	3 submodules of column 2	3 days	08/01/2018	11/01/2018																					
201	3 submodules of column 3	3 days	11/01/2018	16/01/2018																					
202	3 submodules of column 4	3 days	16/01/2018	19/01/2018																					
203	3 submodules of column 5	3 days	19/01/2018	24/01/2018																					
204	4 submodules of column 6 and 7	4 days	24/01/2018	30/01/2018																					
205	5 submodules to install last	5 days	30/01/2018	06/02/2018																					
206	Installation in cryostat	55 days	19/01/2018	06/04/2018																					
207	Assemble First column	2 days	19/01/2018	23/01/2018																					
208	Assemble Second column	2 days	23/01/2018	25/01/2018																					
209	Assemble Third column	2 days	25/01/2018	29/01/2018																					
210	Assemble Fourth column	2 days	29/01/2018	31/01/2018																					
211	Assemble Fifth column	2 days	31/01/2018	02/02/2018																					
212	Fix clips and contacting dividers and reinforcements	4 days	02/02/2018	08/02/2018																					
213	Assemble 2/3 of columns 6 and 7	75 days	08/02/2018	15/02/2018																					
214	Bring last 5 submodules on the site	1 days	15/02/2018	16/02/2018																					
215	Bring and assemble cathode and GND grid modules	6 days	16/02/2018	26/02/2018																					
216	Remove Crane I-Beam inside the cryostat	2 days	05/03/2018	07/03/2018																					
217	Install 4 of the last FC submodules + missing	5 days	07/03/2018	14/03/2018																					
218	HVFT and degraders	5 days	07/03/2018	14/03/2018																					
219	connect cathode and ground grid to the FC	1 day	14/03/2018	15/03/2018																					
220	Remove floor and scaffoldings	2 days	15/03/2018	19/03/2018																					
221	Lower the ground grid	2 days	04/04/2018	06/04/2018																					
222	Beam plug installation	5 days	26/02/2018	05/03/2018																					
223																									
224	HV system	10 days	08/02/2018	22/02/2018																					
225	Insertion and assembly in cryostat	10 days	08/02/2018	22/02/2018																					
226																									
227	PMT and Light Read Out System	340 days	01/12/2016	04/04/2018																					
228	LRO electronics	218 days	08/03/2017	19/01/2018																					
229	PMTs preparation and installation	340 days	01/12/2016	04/04/2018																					
230	PMT procurement	17 days	01/12/2016	23/12/2016																					
231	PMT base design and manufacturing	80 days	09/01/2017	28/04/2017																					
232	PMT support structure production and assembly	81 days	09/01/2017	28/04/2017																					
233	PMTs characterization	190 days	09/01/2017	29/09/2017																					
234	TPB coating	59 days	11/09/2017	30/11/2017																					
235	Splitter production and tests	64 days	04/09/2017	30/11/2017																					
236	PMT cable and fiber routing in cryostat from flange to bottom	2 days	17/01/2018	19/01/2018																					
237	PMT support installation on the membrane	2 days	19/03/2018	21/03/2018																					
238	PMT testing, installation in cryostat and cabling	10 days	21/03/2018	04/04/2018																					
239	Splitter installation	10 days	21/03/2018	04/04/2018																					
240	Light calibration system	271 days	08/03/2017	04/04/2018																					
241	Fibers, light source tests and procurement	193 days	08/03/2017	01/12/2017																					
242	Fiber calibration system installation	10 days	21/03/2018	04/04/2018																					
243	Lower the Ground grid to its final position	2 days	04/04/2018	06/04/2018																					
244																									
245	Front End electronics	90 days	25/09/2017	09/02/2018																					
246	F/E electronics installation	30 days	25/09/2017	03/11/2017																					
247	microTCA installation	30 days	18/12/2017	09/02/2018																					
248																									
249	Slow control	30 days	06/11/2017	15/12/2017																					
250	cabling and testing	30 days	06/11/2017	15/12/2017																					
251																									
252	Purity monitor	15 days	05/03/2018	26/03/2018																					
253	Installation	15 days	05/03/2018	26/03/2018																					
254																									
255	Ready to seal TCO & cryostat	1 day	06/04/2018	09/04/2018																					
256																									
257	Large Area Trigger Counters	30 days	13/11/2017	22/12/2017																					
258	Installation	30 days	13/11/2017	22/12/2017																					