

ID	Task name	Duration	Start date (dd/mm/yy)	Finish date (dd/mm/yy)	Comment	Timeline																							
						Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug			
1	ProtoDUNE-DP	423,71 days?	01/12/2016	31/07/2018		Proto																							
2	Cryostat preparation	134 days	08/03/2017	11/09/2017	waiting NP update	Cryostat preparation																							
3	Cryostat with penetrations is ready	56 days	08/03/2017	24/05/2017	delayed																								
4	CRB and insertion rail preparation	10 days	24/07/2017	04/08/2017																									
5	CRB ready	0 days	04/08/2017	04/08/2017																									
6	Internal cryogenic piping	15 days	15/08/2017	04/09/2017																									
7	Floor installation	5 days	05/09/2017	11/09/2017																									
8	Cryostat internal cables and instrumentation	228,71 days?	03/07/2017	31/05/2018		Cryostat internal c																							
9	Internal cable trays	109 days	03/07/2017	30/11/2017																									
10	First layout	14 days	03/07/2017	20/07/2017																									
11	Final design	1 day	02/10/2017	02/10/2017																									
12	Procurement and installation	43 days	03/10/2017	30/11/2017																									
13	Purity monitor	133,71 days	13/11/2017	31/05/2018		Purity monitor																							
14	Final design: including feedback from 3x1x1	10 days	13/11/2017	24/11/2017																									
15	Procurement of 2nd monitor	15 days	27/11/2017	15/12/2017																									
16	Tests at UCL with cables	15 days	18/12/2017	19/01/2018																									
17	Tests in vacuum at CERN 2 weeks in bld 182	10 days	22/01/2018	02/02/2018																									
18	Install cables in cryostat	10 days	05/02/2018	16/02/2018																									
19	Installation	10 days	17/05/2018	31/05/2018																									
20	Cryostat Cables and sensors	68 days?	13/11/2017	28/02/2018		Cryostat Cables and sensors																							
21	sensors (to develop)	68 days?	13/11/2017	28/02/2018																									
22																													
23	Cryostat is ready for detector installation	0 days	30/11/2017	30/11/2017																									
24																													
25	CRP Production & Installation	279,71 days?	10/04/2017	18/05/2018		CRP Production & Ins																							
26	CR185 material order	1 day	10/04/2017	10/04/2017																									
27	Clean Room Material reception	83 days	11/04/2017	03/08/2017																									
28	Patch panel design and production	30 days	17/10/2017	27/11/2017	need design of CRP_INST																								
29	CR185 preparation	57 days	04/07/2017	20/09/2017																									
30	Furnishing integration	2 days	04/07/2017	05/07/2017																									
31	Initial cleaning	2 days	18/09/2017	19/09/2017																									
32	Grid tooling preparation	55 days	06/07/2017	20/09/2017																									
33	CRP assembly in CR185	148,71 days	21/09/2017	01/05/2018		CRP assembly in CR185																							
34	CRP #1	70 days	21/09/2017	10/01/2018		CRP #1																							
35	Parts reception in CR185	10 days	21/09/2017	04/10/2017																									
36	Supporting structure assembly	1 day	05/10/2017	05/10/2017																									
37	Invar frame on supporting stui	4 hrs	06/10/2017	06/10/2017																									
38	G10 assembly on optical table	1 day	05/10/2017	05/10/2017																									
39	G10 and Invar connection	1 day	06/10/2017	09/10/2017																									
40	LAS assembly and cabling on C	10 days	09/10/2017	23/10/2017																									
41	Instrumentation assembly	2 days	28/11/2017	29/11/2017																									
42	Grid weaving	5 days	30/11/2017	06/12/2017																									
43	Grid Installation	5 days	30/11/2017	06/12/2017																									
44	Planarity tuning	4 days	07/12/2017	12/12/2017																									
45	Electrical Tests	10 days	13/12/2017	09/01/2018																									
46	Packing in transport box	1 day	10/01/2018	10/01/2018																									
47	CRP #2	26,57 days	10/01/2018	15/02/2018		CRP #2																							
60	CRP #3	26,57 days	15/02/2018	26/03/2018		CRP #3																							
73	CRP #4	26,57 days	26/03/2018	01/05/2018		CRP #4																							
86	LAS Supply	201 days?	29/05/2017	19/03/2018		LAS Supply																							
87	Green Light full LEM production	1 day?	02/10/2017	02/10/2017																									
88	Administrative time to start second Production	10 days	03/10/2017	16/10/2017		Administrative time to start second Production																							
89	LAS Firm_A Production Validation	55 days	29/05/2017	11/08/2017		LAS Firm_A Production Validation																							
90	LEM production (Preserie 6 LE	45 days	29/05/2017	28/07/2017																									
91	LEM Preserie Tests	10 days	31/07/2017	11/08/2017																									
92	LEM Production Validated	0 days	11/08/2017	11/08/2017																									
93	12 LAS Firm_A production	20 days	14/08/2017	08/09/2017		12 LAS Firm_A production																							
94	6 LEM Batch production	5 days	14/08/2017	18/08/2017																									
95	6 LEM Batch production	5 days	21/08/2017	25/08/2017																									
96	12 LAS Processing at Saclay	5 days	28/08/2017	01/09/2017																									
97	12 LAS send to CERN	1 day	04/09/2017	04/09/2017																									
98	12 LAS Assembly at CERN	4 days	05/09/2017	08/09/2017																									
99	12 LAS Firm_A production	20 days	28/08/2017	22/09/2017		12 LAS Firm_A production																							
105	12 LAS Firm_A production	20 days	11/09/2017	06/10/2017		12 LAS Firm_A production																							
111	second half at Firm_A	0 days	22/09/2017	22/09/2017																									
112	12 LAS Firm_A production	20 days	25/09/2017	20/10/2017		12 LAS Firm_A production																							
118	12 LAS Firm_A production	20 days	09/10/2017	03/11/2017		12 LAS Firm_A production																							
124	12 LAS Firm_A production	20 days	23/10/2017	17/11/2017		12 LAS Firm_A production																							
130	LAS Firm_B Production Validation	30 days	17/10/2017	27/11/2017		LAS Firm_B Production Validation																							
134	12 LAS Firm_B production	20 days	28/11/2017	08/01/2018		12 LAS Firm_B production																							
140	12 LAS Firm_B production	20 days	12/12/2017	22/01/2018		12 LAS Firm_B production																							
146	12 LAS Firm_B production	20 days	09/01/2018	05/02/2018		12 LAS Firm_B production																							
152	12 LAS Firm_B production	20 days	23/01/2018	19/02/2018		12 LAS Firm_B production																							
158	12 LAS Firm_B production	20 days	06/02/2018	05/03/2018		12 LAS Firm_B production																							
164	12 LAS Firm_B production	20 days	20/02/2018	19/03/2018		12 LAS Firm_B production																							
170	CRP installation in the cryostat	91,71 days	11/01/2018	18/05/2018		CRP installation in the																							
171	CRP #1 Installation in Cryostat	11 days	11/01/2018	25/01/2018		CRP #1 Installation in Cryostat																							
172	CRP Transportation from Mey	1 day	11/01/2018	11/01/2018																									
173	Unpacking and preparation in	1 day	12/01/2018	12/01/2018																									
174	Insertion in the Cryostat	1 day	15/01/2018	15/01/2018																									
175	Metrology & Connections ope	5 days	16/01/2018	22/01/2018																									
176	Electrical and signal tests	3 days	23/01/2018	25/01/2018																									
177	CRP is ready	0 days	25/01/2018	25/01/2018																									
178	CRP #2 Installation in Cryostat	11 days	15/02/2018	02/03/2018		CRP #2 Installation in Cryostat																							
185	CRP #3 Installation in Cryostat	11 days	26/03/2018	10/04/2018		CRP #3 Installation in Cryosta																							
192	CRP #4 Installation in Cryostat	11 days	01/05/2018	16/05/2018		CRP #4 Installation in																							
199	CRP lateral position adjustment (warm conditions)	2 days	16/05/2018	18/05/2018																									
200																													
201																													
202	Chimneys and feedthroughs	231 days	19/06/2017	21/05/2018		Chimneys and feedth																							
203	SPFT Production & Installation	45 days	02/10/2017	01/12/2017		SPFT Production & Installation																							
204	SPFT production	30 days	02/10/2017	10/11/2017																									
205	SPFT Pre-Assembly	2 days	13/11/2017	14/11/2017																									
206	SPFT Assembly on Cryostat Roof	1 day	01/12/2017	01/12/2017																									
207	Signal Feedthrough SGFT	231 days	19/06/2017	21/05/2018		Signal Feedthrough																							
208	Final design	56 days	19/06/2017	04/09/2017																									

Tâche Répétitif du projet Tâche manuelle Début uniquement Échéance
 Fractionnement Tâche inactive Durée uniquement Fin uniquement Avancement
 Jalon Jalon inactif Report répétitif manuel Tâches externes Progression manuelle
 Répétitive Répétitif inactif Répétitif manuel Jalons externes

Projet : ProtoDUNE-DP-010917
 Date : 01/09/2017

