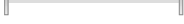


ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Initials	Qtr 3, 2024 Jul		Aug	Sep	Qtr 4, 2024 Oct		Nov	Dec	Qtr 1, 20 Jan
1			ePIC Final Installation	1 day	Mon 3/19/29	Mon 3/19/29											
2			Prep Work for EPIC Installation	230 days	Tue 3/20/29	Tue 2/26/30											
3			Training Techs	20 days	Tue 3/20/29	Mon 4/16/29	1	MT									
4			Prototyping and Testing of Installation Tooling	30 days	Tue 4/17/29	Tue 5/29/29	3	MT,ME BNL									
5			Load Testing of Detector Support Strucutures	30 days	Wed 5/30/29	Thu 7/12/29	4	MT,ME BNL,R									
6			Pre-Assembly of Flux Return Bars and HCAL Sectors	35 days	Fri 7/13/29	Thu 8/30/29	5	MT,ME BNL									
7			North and South Platform Modifications (Width Reduction)	100 days	Tue 3/20/29	Thu 8/9/29	1	Ext Comp									
8			DC Power Dridge Modifications	10 days	Fri 8/31/29	Fri 9/14/29	6	MT									
9			Replace Cooling Radiators, Valves and Standpipes for Electronics Racks on South Platform	30 days	Mon 9/17/29	Fri 10/26/29	8	MT									
10			Power Distribution Relocation on South Platform	10 days	Mon 9/17/29	Fri 9/28/29	8	E									
11			Coordination with Vendors and Machine Shops	153 days	Tue 3/20/29	Wed 10/24/29	1	ME BNL									
12			Coordination with External SubDetector Groups	153 days	Tue 3/20/29	Wed 10/24/29	1	ME BNL									
13			Benficial Occupancy of Bldg 1006	0 days	Mon 10/1/29	Mon 10/1/29											
14			Repair the Swaged rail lip + Insulator Installation	15 days	Mon 10/29/29	Mon 11/19/29	13,9	MT									
15			Cradle Installation (Including Hydraulic Cyllinders and Air Bearings and Controllers)	60 days	Tue 11/20/29	Tue 2/26/30	14	MT									
16			Magnet and Cryo Prep Work after Beneficial Occupancy	165 days	Mon 10/1/29	Wed 6/5/30											
17			Roof Penetration on Southwest for Cryo Line	0 days	Mon 10/1/29	Mon 10/1/29	13										
18			Magnet Power Supply Installation and Testing	85 days	Mon 10/1/29	Tue 2/12/30	13	D,Ren									
19			West Wall Cryogenics Instalation	120 days	Mon 10/1/29	Tue 4/2/30	13	Rbrto									
20			Cryo Line Installation on Southwest Complete	0 days	Tue 4/2/30	Tue 4/2/30	19										
21			Install controls and power cables for Cryogenics	45 days	Wed 4/3/30	Wed 6/5/30	19	Rbrto									
22			Barrel Assembly/Installation	857 days	Wed 2/27/30	Mon 8/22/33											
23			HCAL Sectors - Final Installation (Bottom Half)	42 days	Wed 2/27/30	Thu 4/25/30	15	MT,R									
24			Scaffold Installation for Solenoid +Support Rings Work	3 days	Fri 4/26/30	Tue 4/30/30	23	C									
25			Magnet Delivery to BNL (at Assembly Hall)	0 days	Wed 8/27/31	Wed 8/27/31											
26			Solenoid +Support Rings - Final Installation in Assembly Hall	5 days	Wed 8/27/31	Wed 9/3/31	24,25	MT,R									
27			HCAL Sectors - Final Installation (TopHalf)	42 days	Thu 9/4/31	Fri 10/31/31	26	MT,R									
28			Magnet Chimney Platform Installation	10 days	Mon 11/3/31	Mon 11/17/31	27	C									
29			Magnet Cryo Chimney Installation (On Magnet Side)	42 days	Tue 11/18/31	Mon 2/2/32	28	Ren									
30			Magnet Side Cryo Jumper Header Installation	20 days	Tue 2/3/32	Mon 3/1/32	29	Rbrto									
31			Put Cable Trays on Barrel East and West	10 days	Tue 11/18/31	Thu 12/4/31	28	C									
32			Cabling Barrel HCAL Detectors	30 days	Fri 12/5/31	Thu 1/29/32	31	MT									
33			Attach Platforms (North and South)	5 days	Tue 2/3/32	Mon 2/9/32	32,29	MT									
34			Roll into IR	1 day	Tue 2/10/32	Tue 2/10/32	33,88,107	MT									
35			Magnet Mapper and Mounting Mechanism READY	0 days	Tue 2/10/32	Tue 2/10/32	34	Ren,ME BNL									
36			Prep work in IR (Constructing Cryo Connections) + Power Bridge Installation	15 days	Wed 2/11/32	Tue 3/2/32	34	MT									
Project: EPIC Final Installation S Date: Wed 2/18/26			Task		Project Summary		Manual Task		Start-only		Deadline						
			Split		Inactive Task		Duration-only		Finish-only		Progress						
			Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress						
			Summary		Inactive Summary		Manual Summary		External Milestone								
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ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Initials	Qtr 3, 2024		Aug	Sep	Qtr 4, 2024		Nov	Dec	Qtr 1, 2025
									Jul				Oct				Jan
37			Safety Walkthrough	1 day	Wed 3/3/32	Wed 3/3/32	36										
38			Prep time to address safety items	10 days	Thu 3/4/32	Wed 3/17/32	37	Ren,Rbrto									
39			Cooldown and Commisioning of Magnet	15 days	Thu 3/18/32	Wed 4/7/32	38	Rbrto									
40			Magnet Mapping	45 days	Thu 4/8/32	Thu 6/10/32	39	Rbrto,Ren									
41			Prep Work to Roll Out	5 days	Fri 6/11/32	Thu 6/17/32	40	MT									
42			Roll out into Assembly Hall	2 days	Fri 6/18/32	Mon 6/21/32	41	MT									
43			Prep Work in Assembly Hall	2 days	Tue 6/22/32	Wed 6/23/32	42	MT									
44			Barrel EMCAL Installation Tooling and Platform Setup	5 days	Thu 6/24/32	Wed 6/30/32	43	MT,R									
45			Barrel EMCAL Assembly and Installation	40 days	Thu 7/1/32	Wed 8/25/32	44	MT									
46			Barrel EMCAL Tooling Removal	5 days	Thu 8/26/32	Wed 9/1/32	45	MT,R									
47			Astropix Installation + Inner Sector Box Installation	10 days	Thu 9/2/32	Thu 9/16/32	46	MT									
48			Barrel EMCAL Final Cabling+Cooling	20 days	Fri 9/17/32	Thu 10/14/32	47	MT									
49			Barrel EMCAL Testing	20 days	Fri 10/15/32	Thu 11/11/32	48	Scientist,Post-D									
50			Barrel EMCAL Platform Removal (Done after MPGD bars installation)	3 days	Mon 11/15/32	Wed 11/17/32	49	C									
51			Inner Detectors (Silicon, TOF and MPGDs) Ready for Install	0 days	Fri 8/1/31	Fri 8/1/31											
52			Global Support Tube (GST) Installation	10 days	Thu 11/18/32	Mon 12/6/32	50	MT									
53			DIRC Installation	18 days	Tue 12/7/32	Tue 1/11/33	52	MT									
54			Outer MPGD Installation	10 days	Wed 1/12/33	Wed 1/26/33	53	MT									
55			DIRC and MPGD Testing	10 days	Thu 1/27/33	Wed 2/9/33	54	Scientist,Post-D									
56			Cabling DIRC+ Outer MPGDs	5 days	Thu 2/10/33	Wed 2/16/33	55	MT									
57			Cooling DIRC +Outer MPGDs	15 days	Thu 2/17/33	Wed 3/9/33	56	MT									
58			Inner Detectors + Beam Pipe Assembly and Testing	60 days	Thu 3/4/32	Thu 5/27/32	37	MT									
59			Inner Detectors + Beam Pipe Installation Platform	5 days	Thu 3/10/33	Wed 3/16/33	57	MT,R,C									
60			Inner Detectors + Beam Pipe Installation	5 days	Thu 3/17/33	Wed 3/23/33	59	MT,R									
61			Cabling + Cooling Installation for Inner Detector	30 days	Thu 3/24/33	Wed 5/4/33	60	MT									
62			Testing Inner Detectors	20 days	Thu 5/5/33	Thu 6/2/33	61	Scientist,Post-D									
63			dRICH Platform and Tooling Installation	5 days	Fri 6/3/33	Thu 6/9/33	62	MT,R									
64			dRICH Detector Installation	5 days	Fri 6/10/33	Thu 6/16/33	63	MT									
65			dRICH Testing	10 days	Fri 6/17/33	Thu 6/30/33	64	Scientist,Post-D									
66			dRICH Cabling+Cooling	30 days	Fri 7/1/33	Fri 8/12/33	65	MT									
67			dRICH Platform Removal	2 days	Mon 8/15/33	Tue 8/16/33	66	C									
68			pFRICH and EEEMCAL Platform Installation	4 days	Fri 6/17/33	Wed 6/22/33	64	C									
69			pFRICH Detector	5 days	Thu 6/23/33	Wed 6/29/33	68	MT									
70			EEEMCAL Detector	5 days	Thu 6/30/33	Thu 7/7/33	69	MT									
71			pFRICH and EEEMCAL Cabling+Cooling	20 days	Fri 7/8/33	Thu 8/4/33	70	MT									
72			pFRICH and EEEMCAL Testing	10 days	Fri 8/5/33	Thu 8/18/33	71	Scientist,Post-D									
73			EEEMCAL and pFRICH Platform Removal	2 days	Fri 8/19/33	Mon 8/22/33	72	C									
Project: EPIC Final Installation S Date: Wed 2/18/26			Task		Project Summary		Manual Task		Start-only		Deadline						
			Split		Inactive Task		Duration-only		Finish-only		Progress						
			Milestone		Inactive Milestone		Manual Summary Rollup		External Tasks		Manual Progress						
			Summary		Inactive Summary		Manual Summary		External Milestone								
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ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Initials	Qtr 3, 2024		Aug	Sep	Qtr 4, 2024		Nov	Dec	Qtr 1, 20
									Jul				Oct				Jan
74			Hadron Endcap Assembly/Installation	863 days	Fri 4/26/30	Fri 10/28/33											
75			Endcap Flux Return Steel Subassemblies Transportation to Bldg 1006 IR	10 days	Fri 4/26/30	Thu 5/9/30	23	R									
76			Endcap Base Rigging in Position	2 days	Fri 5/10/30	Mon 5/13/30	75	R									
77			End Cap Base Installation	5 days	Tue 5/14/30	Mon 5/20/30	76	MT									
78			Moving Mechanism Installation and Testing	5 days	Tue 5/21/30	Tue 5/28/30	77	MT									
79			Flux Return Steel Structures Rigging	5 days	Wed 5/29/30	Tue 6/4/30	78	R									
80			Flux Return Steel Structures Installation	10 days	Wed 5/29/30	Tue 6/11/30	78	MT									
81			Oculus Plate Installation	2 days	Wed 6/12/30	Thu 6/13/30	80	R									
82			Oculus Plate Installation	10 days	Wed 6/12/30	Wed 6/26/30	80	MT									
83			EMCAL Support Plate Rigging	2 days	Thu 6/27/30	Fri 6/28/30	82,81	R									
84			EMCAL Support Plate Installation	5 days	Thu 6/27/30	Wed 7/3/30	82,81	MT									
85			HCAL Tower Transportation to Bldg 1006 IR	20 days	Fri 7/5/30	Thu 8/1/30	84,83	R									
86			HCAL Detector Installation (12 towers per day)	100 days	Fri 7/5/30	Tue 11/26/30	84,83	MT									
87			Flux Return Steel Top Half Rigging	5 days	Fri 11/29/30	Thu 12/5/30	86	R									
88			Flux Return Steel Top Half Installation	10 days	Fri 12/6/30	Thu 12/19/30	87	MT									
89			Cabling HCAL Detector	30 days	Thu 3/27/31	Wed 5/7/31	107	MT									
90			Testing HCAL	20 days	Thu 5/8/31	Thu 6/5/31	89	Scientist,Post-D									
91			EMCAL Detector Installation (30 modules per day)	40 days	Fri 8/5/33	Fri 9/30/33	90,71	MT									
92			Cabling EMCAL Detector	5 days	Mon 10/3/33	Fri 10/7/33	91	MT									
93			Testing EMCAL	10 days	Mon 10/10/33	Fri 10/21/33	92	Scientist,Post-D									
94			Install EMCAL Light Tight Cover	5 days	Mon 10/24/33	Fri 10/28/33	93	MT									
95			Lepton/Electron Endcap Assembly/Installation	861 days	Fri 12/20/30	Wed 6/28/34											
96			Endcap Flux Return Steel Subassemblies Transportation to Bldg 1006 IR	10 days	Fri 12/20/30	Tue 1/14/31	88	R									
97			Endcap Base Rigging in Position	1 day	Wed 1/15/31	Wed 1/15/31	96	R									
98			End Cap Base Installation	5 days	Wed 1/15/31	Wed 1/22/31	96	MT									
99			Moving Mechanism Installation and Testing	5 days	Thu 1/23/31	Wed 1/29/31	98	MT									
100			Flux Return Steel Structures Rigging	5 days	Thu 1/30/31	Wed 2/5/31	99	R									
101			Flux Return Steel Structures Installation	10 days	Thu 1/30/31	Wed 2/12/31	99	MT									
102			Oculus Plate Installation	2 days	Thu 2/13/31	Fri 2/14/31	101	R									
103			Oculus Plate Installation	10 days	Thu 2/13/31	Wed 2/26/31	101	MT									
104			Flux Return Steel Plate Rigging	2 days	Thu 2/27/31	Fri 2/28/31	102,103	R									
105			Flux Return Steel Plate Installation	5 days	Thu 2/27/31	Wed 3/5/31	102,103	MT									
106			Flux Return Steel Top Half Rigging	5 days	Thu 3/6/31	Wed 3/12/31	105	R									
107			Flux Return Steel Top Half Installation	10 days	Thu 3/13/31	Wed 3/26/31	106	MT									
108			Remove Flux Return Steel Top Half and Oculus Plate for HCAL Detector Installation	3 days	Mon 10/31/33	Wed 11/2/33	94	R									
Project: EPIC Final Installation S Date: Wed 2/18/26			Task  Project Summary Split  Inactive Task Milestone  Inactive Milestone Summary  Inactive Summary	   	Manual Task Duration-only Manual Summary Rollup Manual Summary	   	Start-only Finish-only External Tasks External Milestone	   	Deadline Progress Manual Progress	  							
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ID		Task Mode	Task Name	Duration	Start	Finish	Predecessors	Resource Initials	Qtr 3, 2024 Jul	Aug	Sep	Qtr 4, 2024 Oct	Nov	Dec	Qtr 1, 2025 Jan
109			Remove Flux Return Steel Top Half and Oculus Plate for HCAL Detector Installation	10 days	Mon 10/31/33	Fri 11/11/33	94								
110			HCAL Transportation to Bldg 1006 IR	10 days	Mon 11/14/33	Wed 11/30/33	109	R							
111			HCAL Detector Installation	100 days	Thu 12/1/33	Mon 5/1/34	110	MT							
112			Cabling HCAL Detector	30 days	Tue 5/2/34	Tue 6/13/34	111	MT							
113			Testing HCAL	10 days	Wed 6/14/34	Wed 6/28/34	112	Scientist,Post-D							

Project: EPIC Final Installation S
Date: Wed 2/18/26

Task

Split

Milestone

Summary









Project Summary

Inactive Task

Inactive Milestone

Inactive Summary









Inactive Task

Inactive Milestone

Inactive Summary

Manual Task

Duration-only

Manual Summary Rollup

Manual Summary









Start-only

Finish-only

External Tasks

External Milestone









Deadline

Progress

Manual Progress





