2017-2020 COMPENDIUM OF TRAINING STATISTICS



REPUBLIC OF THE PHILIPPINES DEPARTMENT OF SCIENCE AND TECHNOLOGY PHILIPPINE NUCLEAR RESEARCH INSTITUTE

COMPENDIUM OF TRAINING STATISTICS (2017 – 2020)

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Suggested Citation: "Compendium of Training Statistics (2017 – 2020). Nuclear Training Center, Philippine Nuclear Research Institute. 2021"

ISSN: 2617 788X

Published by the Philippine Nuclear Research Institute Commonwealth Ave., Diliman Quezon City Philippines

December 2021

Foreword

The Philippine Nuclear Research Institute (PNRI) is the only Philippine government agency mandated to promote nuclear science and technology in the country. This educational mandate is an essential part in PNRI's effort to engage the public in the discipline of nuclear science and technology, together with the maintenance of a vigorous research program and the building and operation of state-of-the-art research facilities.

To achieve this education mandate, the PNRI, through the Nuclear Training Center (NTC), annually conducts training courses for government agencies, private companies, various industries, medical institutions, the academe, and the public on the beneficial uses of nuclear science and technology.

This second publication provides data users with timely, accurate and reliable information on training related statistics which can serve as inputs for responsive professional program developments or education outreach activities in nuclear science and technology.

This publication is available in soft copy and can be accessed and downloaded in portable data format (pdf) from our website at http://www.pnri.dost.gov.ph. We will greatly appreciate your comments/suggestions to further improve this publication.

Data Highlights

- Training data covered in this compendium are (1) regular and special training courses conducted from 2017 2020; (2) non destructive testing technology training courses conducted from 2010 2018; (3) follow up training course on reactor engineering conducted from 2012 2020; and (4) on the job training program from 2017 2020.
- Two factors significantly affected the number of participants in the training courses and the on-the-job training program the COVID-19 pandemic declared in 2020 and the 2-year transition period of the K-12 curriculum which affected undergraduate enrollment in 2018 and 2019.
- On average, the Nuclear Training Center (NTC) conducted training courses 26 times per year, about 20 of which are regular and special training courses and the remaining 6 are non-destructive testing (NDT) technology courses.
- On average, 447 participants per year are trained in regular and special training courses and 240 participants per year are trained in NDT courses. The cumulative number of participants trained in regular and special courses from 2017 2020 is 1,788. For NDT technology courses, the cumulative number of participants trained from 2010 2018 is 2,164.
- The Radiation Safety Course Sealed Sources in Industrial Devices (RSC-ID) remains the most conducted training course in the NTC compared. Consequently, it recorded the highest number of participants from 2017 2020. About 80% of participants in RSC-ID are males.
- There is a significant increase in the frequency of the conduct of the Course on Medical Use of Radioisotope (CMR). From twice yearly in 2012 2016, it was conducted three four times yearly in 2017 2020. CMR requires 20 working days (180 training hours) to complete.
- Non-destructive testing (NDT) technology courses have been offered 6 8 times yearly from 2010 2018. Among the courses that recorded the highest number of participants are Ultrasonic Testing (UT), Radiographic Testing (RT), and Surface Methods (SM) with a cumulative number of trainees 650, 585, and 501 respectively from 2010 2018. Less than 10% of the participants in the NDT courses are females.
- The shift to online classes enabled the 700% increase in the number of participants to the 2020 Follow up Training Course on Reactor Engineering (FTC-RE) from its average number of 19 participants per year from 2012 2019. Less than 40% of the participants in the FTC-RE are females.
- There is a notable increase in the percentage of high school students accepted in On-thejob training (OJT) program. From 20% in 2017, it rose to 80% in 2020.
- More than 50% of the total number of accepted trainees in the OJT program are detailed to sections in the Atomic Research Division.

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TRAINING COURSES

1. Regular and Special Training Courses Conducted from 2017 – 2020

No.	Course Code	Course Title	Duration (days)
1	RSC-ID	Radiation Safety Course - Sealed Sources in Industrial Devices	5
2	RSC-MR	Radiation Safety Course - Medical Use of Radioisotopes	10
3	RSC-IR	Radiation Safety Course - Industrial Radiography	10
4	RSC-CL	Radiation Safety Course-Commercial Sale Involving Radioactive Materials and Low Activity Sources	2
5	RSRC	Radiation Safety Refresher Course	3
6	SNST	Seminar on Nuclear Science for Teachers	20
7	CNT	Course on Nuclear Technology	20
8	CRT	Course on Radioisotope Technology	20
9	CMR	Course on Medical Use of Radioisotopes	20

Table 1. List of regular courses offered annually or conducted upon request

Table 2. List of Special Courses offered annually or conducted upon request

No.	Course Code	Course Title	Duration (days)
1	CBNS	Course on Basic Neutron Science	10
2	FTC-ERM	Follow-up Training Course: Environmental Radioactivity Monitoring	5
3	FTC-NREPR	Follow-up Training Course: Nuclear and Radiological Emergency Preparedness and Response	5
4	FTC-RE	Follow-up Training Course: Reactor Engineering	10
5	RSC-SP	Radiation Safety Course - Security Personnel	2
6	RSSC-PASP	Radiation Safety and Security Course - PNRI Administrative and Support Personnel	2

	2017	2018	2019	2020	Total
CBNS	1	0	2	0	3
CMR	3	3	4	3	13
CNT	1	0	0	0	1
CRT	1	1	1	0	3
FTC-ERM	0	0	1	0	1
FTC-NREPR	0	0	1	0	1
FTC-RE	1	1	1	1	4
RSC-CL	3	2	2	0	7
RSC-ID	8	7	5	4	24
RSC-IR	0	1	1	0	2
RSC-MR	0	0	0	1	1
RSC-SP	0	1	0	0	1
RSRC	4	4	6	2	16
RSSC-PASP	0	0	1	0	1
SNST	1	1	1	0	3
Total	23	21	26	11	81

 Table 3. Total number of training courses conducted per year from 2017 to 2020



Figure 1. Number of training courses conducted per year from 2011 to 2016

	2017	2018	2019	2020	Total
CBNS	24	0	21	0	45
CMR	121	99	118	113	451
CNT	4	0	0	0	4
CRT	14	7	17	0	38
FTC-ERM	0	0	13	0	13
FTC-NREPR	0	0	30	0	30
FTC-RE	18	19	28	134	199
RSC-CL	52	34	30	0	116
RSC-ID	160	130	98	61	449
RSC-IR	0	10	17	0	27
RSC-MR	0	0	0	10	10
RSC-SP	0	12	0	0	12
RSRC	76	109	93	14	292
RSSC-PASP	0	0	19	0	19
SNST	36	24	23	0	83
Total	505	444	507	332	1788

Table 4. Total number of participants for each training course conducted per year from 2017 to 2020



Figure 2. Total number of participants per training course conducted from 2017 to 2020

	J	J · I ·		I J J		
		2017	2018	2019	2020	Total
Male		302	282	307	155	1046
Female		203	162	200	177	742
	Total	505	444	507	332	1788

 Table 5. Total number of male and female participants trained per year from 2017 - 2020



Figure 3. Percentage of total number of male and female participants in the trainings conducted from 2017 – 2020. Graph is based on the data in Table 5

Table 6. Total number of government and	private institutions served in the trainings o	conducted from 2011 - 2016

	2011	2012	2013	2014	Total
Government Institutions	50	43	89	70	252
Private Institutions	182	178	194	126	680
Total	232	221	283	196	932



Figure 4. Percentage of total number of government and private institutions served in the trainings conducted from 2017 - 2020. Graph is based on data in Table 6

	20	017	20	018	20)19	20	020
	Male	Female	Male	Female	Male	Female	Male	Female
CBNS	14	10	0	0	15	6	0	0
CMR	49	72	44	55	46	72	46	67
CNT	2	2	0	0	0	0	0	0
CRT	10	4	3	4	10	7	0	0
FTC-ERM	0	0	0	0	9	4	0	0
FTC-NREPR	0	0	0	0	22	8	0	0
FTC-RE	11	7	14	5	23	5	36	98
RSC-CL	29	23	12	22	19	11	0	0
RSC-ID	127	33	104	26	76	22	55	6
RSC-IR	0	0	8	2	15	2	0	0
RSC-MR	0	0	0	0	0	0	4	6
RSC-SP	0	0	12	0	0	0	0	0
RSRC	49	27	74	35	59	34	14	0
RSSC-PASP	0	0	0	0	7	12	0	0
SNST	11	25	11	13	6	17	0	0
Total	302	203	282	162	307	200	155	177

Table 7. Distribution of male and female participants per course conducted per year from 2017 – 2020



Figure 5. *Percentage distribution of the total number of male and female participants per training course conducted from 2017 – 2020. Graph is based on the data in Table 7*

		No. of Trainings	Venue (PNRI)	Venue (On site)	Blended	Online
2017	Regular	14	14	0	0	0
	Requested	7	0	7	0	0
	Special	2	2	0	0	0
2018	Regular	13	14	0	0	0
	Requested	6	1	5	0	0
	Special	2	2	0	0	0
2019	Regular	13	13	0	0	0
	Requested	7	2	5	0	0
	Special	6	5	1	0	0
2020	Regular	2	2	0	0	0
	Requested	8	2	2	2	2
	Special	1	0	0	0	1

Table 8. Total number of regular, requested, and special trainings conducted per year from 2017 – 2020 and their corresponding venues/mode of delivery



Figure 6. Total number of regular, requested, and special trainings conducted per year from 2017 – 2020

2. Non-Destructive Training (NDT) Courses conducted from 2010 - 2018

No.	Course Code	Course Title	Duration (days)
1	ET	Eddy Current Testing (Level 1, Level 2, and Level 3)	10
2	IT	Infrared Testing (Level 1 and Level 2)	5
3	MT	Magnetic Particle Testing (Level 1, Level 2, and Level 3)	10
4	RI	Radiographic Interpretation	5
5	RT	Radiographic Testing (Level 1, Level 2, and Level 3)	10
6	SM	Surface Methods (Level 1, Level 2, and Level 3)	10
7	TT	Thermographic Testing (Level 1, Level 2, and Level 3)	10
8	UT	Ultrasonic Testing (Level 1, Level 2, and Level 3)	10
9	WIC	Wielding Inspector Course	5

Table 9. List of non-destructive training (NDT) courses offered annually in partnership with the Philippine Society of Non-Destructive Testing



Figure 7. Number of NDT courses conducted per year from 2010 – 2018

	2010	2011	2012	2013	2014	2015	2016	2017	2018	Total
ET	21	24	20	10	22	22	37	31	24	211
IT	0	0	0	0	7	14	0	0	0	21
MT	0	0	0	0	0	0	0	14	0	14
RI	9	0	0	0	0	0	0	10	0	19
RT	70	94	96	32	99	89	26	32	47	585
SM	85	67	33	61	55	50	53	61	36	501
ТТ	0	0	7	0	10	0	18	14	27	76
UT	108	69	89	57	108	82	55	60	22	650
WIC	44	0	0	0	12	0	0	23	8	87
Total	337	254	245	160	313	257	189	245	164	2164

 Table 10. Total number of participants per NDT course conducted each year from 2010 – 2018.



Figure 8. Total number of participants per NDT course conducted from 2017 to 2020

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2010										
	2010	2011	2012	2013	2014	2015	2016	2017	2018	Total
Female	6	15	12	6	21	17	13	20	10	120
Male	331	239	233	154	292	240	176	225	154	2044
Total	337	254	245	160	313	257	189	245	164	2164

Table 11. Total number of male and female participants trained in NDT courses conducted per year from 2010 -2018



Figure 9. Percentage of total number of male and female participants in the NDT courses conducted from 2017 – 2020. Graph is based on the data in Table 11

Table 12. Total number of government and private institutions served in NDT courses conducted per year from2010 - 2018

	2010	2011	2012	2013	2014	2015	2016	2017	2018	Total
Government	3	3	2	7	7	5	2	4	4	37
Private	55	58	56	34	70	64	14	55	108	514
Total	337	254	245	160	313	257	189	245	164	551



Figure 10. Percentage of total number of government and private institutions served in the NDT courses conducted from 2010-2018. Graph is based on data in Table 12

3. Follow up Training Course on Reactor Engineering conducted from 2012 - 2020

	2012	2014	2015	2016	2017	2018	2019	2020	Total
Female	3	6	5	5	7	5	5	36	72
Male	11	10	10	15	11	14	23	98	192
Total	14	16	15	20	18	19	28	134	264

 Table 13. Total number of participants per year of the FTC-RE course conducted from 2012 - 2020



Figure 11. Participants per year of the FTC-RE course conducted from 2012 – 2020



Figure 12. Percentage distribution of male and female participants in the FTC-RE course conducted from 2012-2020

2020									
	2012	2014	2015	2016	2017	2018	2019	2020	Total
Government	1	5	4	11	4	9	10	28	43
Private		2		1	1	2	9	43	52
Total	1	7	4	12	5	11	19	71	94

Table 14. Total number of government and private institutions served in the FTC-RE course conducted from 2012- 2020



Figure 13. Percentage distribution of government and private institutions served in the FTC-RE course conducted from 2012 – 2020

Table 15. Total number of FTC-H	RE course participants from 2012	2-2020 categorized based on .	their affiliation
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	2012	2014	2015	2016	2017	2018	2019	2020	Total
Governmen	t 14	14	15	17	16	17	15	45	153
Private		2		3	2	2	10	66	85
Unemploye	d						3	23	26
То	tal 14	16	15	20	18	19	28	134	264



Figure 14. Percentage distribution of the affiliation of FTC-RE course participants from 2012 – 2020

	2012	2014	2015	2016	2017	2018	2019	2020	Total
1		1		1				3	5
10								7	7
11								2	2
13			3	1				4	8
2				3		1	2		6
3							3	5	8
4 A		2		1			1	10	14
4B								3	3
5		1						8	9
6								3	3
7						1		11	12
8				1			2	2	5
9								2	2
Abroad								4	4
CAR								1	1
NCR	14	12	12	13	18	17	20	69	175
Total	14	16	15	20	18	19	28	134	264

Table 16. Total number of FTC-RE participants from 2012 – 2020 clustered per home region of sending institution



Figure 15. Percentage distribution of FTC-RE participants from 2012 – 2020 per home region of sending institution

	2012	2014	2015	2016	2017	2018	2019	2020	Total
BS		6	6	11	13	9	20	103	168
Masters		10	8	6	5	8	6	24	67
PhD				3		2	2	7	14
Unspecified	14		1						15
Total	14	16	15	20	18	19	28	134	264

Table 17. Number of FTC-RE participants per year from 2012 - 2020 clustered according to educational attainment



Figure 16. Percentage distribution of FTC-RE participants from 2012 – 2020 clustered according to educational attainment



Figure 17. Percentage distribution of the total number of FTC-RE participants from 2012 – 2020 clustered by sector

	2012	2014	2015	2016	2017	2018	2019	2020	Total
Academe		5	6	14	4	13	8	38	88
Business							3		3
Energy		4	3	1	5	3	5	40	61
Industry						1			1
Medical		1						3	4
Military							3		3
None							3	23	26
Regulatory	2	2	3		2	1			10
Research	12	4	3	5	7	1	4	16	52
Services								14	14
Water Management							2		2
Total	14	16	15	20	18	19	28	134	264

 Table 18. Number of FTC-RE participants from 2012 – 2020 clustered according to Sector

 Table 19. Fields of studies of the FTC-RE participants from 2012 – 2020

	2012	2014	2015	2016	2017	2018	2019	2020	Total
Aeronautical Engineering				2				1	3
Aeronautical Management				1					1
Applied Science					2				2
Astronomy							1		1
Business Management								1	1
Chemical Engineering		1	2	2	2	3	5	34	49
Chemical Process Technology								1	1
Chemistry		1	1	2	1			9	14
Civil Engineering								2	2
Communications Engineering								1	1
Computer Engineering					1				1
Computer Science						1			1
Construction Management		1							1
Development Communication			1						1
Development Management					1				1
Electrical Engineering		1	1		4	2	4	19	31
Electronics and Communication Engineering				1	3			3	7

	2012	2014	2015	2016	2017	2018	2019	2020	Total
Electronics Engineering								2	2
Energy Engineering		2			1	1	3	3	10
Engineering Management						1			1
Environmental Engineering								1	1
Environmental Science		1							1
Geology				1				1	2
Industrial Engineering				2		2	1		5
Industrial Technology								1	1
Information Technology						1			1
Materials Engineering								1	1
Materials Science								2	2
Mathematics								1	1
Mechanical Engineering		3	2			1	10	23	39
Medical Biochemistry		1							1
Medical Physics		1	2		2	2		5	12
Metallurgical Engineering								1	1
Mining Engineering								1	1
Nuclear and Radiation Safety			2						2
Petroleum Engineering								6	6
Physical Science								1	1
Physics		4	2	7	1	5	1	8	28
Physics Education								1	1
Public Administration							2		2
Science Education			1	2			1	1	5
Technological Management								1	1
Unspecified	14		1					2	17
Urban Management								1	1
Total	14	16	15	20	18	19	28	134	264

ON THE JOB TRAINING PROGRAM

<u>level. (G – Graduat</u>	e; HS – High Schoo	ol; UG – Undergr	aduate)		
	2017	2018	2019	2020	Total
Female	94	55	46	15	210
G	2				2
HS	12	19	24	13	68
UG	80	36	22	2	140
Male	119	50	59	13	241
G		1			1
HS	29	24	36	10	99

UG

Total

Table 20. Total number of trainees accepted per year from 2017 – 2020 classified according to sex and year



Figure 18. Percentage of the total number of trainees accepted per year from 2017 – 2020 clustered according to education level (G – Graduate; HS – High School; UG – Undergraduate)



Figure 19. Percentage of male and female trainees accepted in the OJT program from 2017 - 2020

		2017	2018	2019	2020
Government/Public		147	83	63	14
Private		66	22	42	14
r	Total	213	105	105	28

 Table 21. Total number of accepted trainees affiliated to government or private schools from 2012 - 2016



Figure 20. Percentage of accepted trainees affiliated to government or private schools from 2017 – 2020

Table 22. Number of public and	private schools affilia	ited to accepted tra	inees from 2017 – 2	2020
	2017	2018	2019	2020
Government/Public	23	15	16	4
Private	12	7	12	4
	Total 35	2.2	28	8

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Figure 21. Percentage distribution of public and private schools affiliated to accepted trainees from 2017 – 2020

¥	×	2017			2018	*	• •	2019			2020	
	F	Μ	Total	F	Μ	Total	F	Μ	Total	F	Μ	Total
G	2		2		1	1						
Physics	2		2		1	1						
HS	12	29	41	19	24	42	24	36	61	13	10	23
ABM	2	1	3					1	1			
HUMSS				1		1						
STEM	10	28	38	18	24	41	24	30	55	13	10	23
TVL								5	5			
UG	80	90	170	36	25	61	22	23	45	2	3	5
Biology	25	4	29	10	4	14	5	4	9			
Chemistry	19	15	34	9	11	20	4	2	6			
IT/Engineering	11	20	31	3		3	6	7	13		1	1
Non-Science	6	4	10	2		2	1		1			
Other Science	4	8	12	1	7	8	1	4	5	2	2	4
Physics	7	33	40	2	1	3	5	6	11			
Science Education	8	6	14	9	2	11						
Total	94	119	213	55	50	104	46	59	106	15	13	28

 Table 23. Classification of accepted trainees according to fields of study for the year 2012 - 2016



Figure 22. Fields of study/Specialization of accepted trainees from 2017 – 2020

	2017	2018	2019	2020
NCR	174	89	96	28
Region II	6			
Region III	11	13	3	
Region IV-A	5		2	
Region V	7			
Region VI	1			
Region X	9	3	1	
Region XII			1	
Region XIII			2	
Te	otal 213	105	105	28

 Table 24. Total number of trainees from 2017 – 2020 clustered per home region of sending institution



Figure 23. Percentage of trainees clustered per home region of sending institution.

		2017	2018	2019	2020	Total
ARD		119	80	59	14	272
APRS		26	9	8		43
ARS		40	20	17	4	81
BMRS		21	21	16	6	64
CRS		10	13	12	4	39
HPRS		11	6			17
NMRS		11	11	6		28
FAD		7	5	7	1	20
AS				1		1
BS		1				1
CS		2	1			3
ESS					1	1
GSS				2		2
HRMRCS		3	3	4		10
PPS		1	1			2
NRD		1		6	2	9
LRES		1				1
RIAS				6	2	8
NSD		73	19	22	5	119
ESS		21		6		27
ISS		1		2		3
NATAS		34	15	8	5	62
NROS				5		5
RPSS		17	4	1		22
TDD		13	1	11	6	31
ICS		1				1
MISS		4			2	6
NIDS		4		4	2	10
NTC		4	1	7	2	14
	Total	213	105	105	28	451

 Table 25. Number of trainees accepted per year in the different divisions and sections from 2017 - 2020



Figure 24. Percentage distribution of the accepted trainees per division from 2017 - 2020



Figure 25. Trends in the number of accepted trainees per division from 2017-2020



Figure 26. Percentage distribution of accepted trainees per section in the Atomic Research Division (ARD)



Figure 27. Frequency of accepted trainees per section in the Finance and Administration Division (FAD)



Figure 28. Frequency of accepted trainees per section in the Nuclear Regulatory Division (NRD)



Figure 29. Frequency of accepted trainees per section in the Nuclear Services Division (NSD)



Figure 30. Frequency of accepted trainees per section in the Technology Diffusion Division (TDD)

Name of School or University	2017	2018	2019	2020	Total
Adamson University			4		4
AMA University and Colleges	4	8	2	1	15
Antipolo City National Science and Technology High School				1	1
Ateneo de Manila University	5	2	3		10
Bestlink College of the Philppines		2			2
Bicol University	3				3
Bulacan State University	9	8			17
Cagayan State University-Carig campus	6				6
Camp General Emilio Aguinaldo High School		1	2		3
Central Luzon State University			3		3
Claret School of Quezon City			5		5
Commonwealth High School			9		9
De La Salle University	10				10
Eclaro Academy			4		4
Eulogio "Amang" Rodriguez Institute of Science and Technology	9		1		10
ICCT Colleges Foundation, Inc.	1				1
Jean Baptiste of Reims College	9				9
La Consolacion Colleges	2				2
Lagro High School	4				4
Makati Science High School		4			4
Mapua University	2	1	4	3	10
Marikina Polytechnic College		5		1	6
Marikina Science High School		13	5	8	26
Mater Carmeli School		1			1
Metro Manila College			4		4
Mindanao State University - Iligan Insitute of Technology	9	3			12
New Era University	10	2	4		16
Novaliches High School			5		5
Our Lady of Fatima University	6		4		10
Pamantasan ng Lungsod ng Maynila	6				6
Philippine Normal University -Manila	13	11			24
Philippine Science High School - Western Visayas Campus	1				1
Philippine Science High School-Bicol Region Campus	4				4
Philippine Science High School-Cagayan Valley Campus			1		1
Philippine Science High School-Calabarzon Region Campus			1		1
Philippine Science High School-Central Midanao Campus			1		1
Philippine Science High School-Main Campus	5				5
Philippine Science High School-SOCCSKSARGEN Region Campus			1		1

Table 26. Frequency of accepted trainees per school or university from 2017 – 2020.

Name of School or University	2017	2018	2019	2020	Total
Polytechnic University of the Philippines	8	8	5		21
Quezon City Academy Foundation Inc.				9	9
Quezon City Polytechnic University	9				9
Quezon City Science High School			15		15
Rizal Technological University	11	5	5	4	25
San Francisco High School	8	4			12
Surigao Del Sur State University-Cantilan Campus			1		1
Tarlac State University	2	5			7
Technological Institute of the Philippines	8		4	1	13
Technological University of the Philippines-Manila	5	1	1		7
University of Caloocan City	3				3
University of Rizal	3				3
University of Santo Tomas	9	6	3		18
University of the Philippines - Diliman	16				16
University of the Philippines - Los Baños	1				1
University of the Philippines - Manila	9				9
University of the Philippines - Manila	1				1
University of the Philippines-Diliman		8	3		11
University of the Philippines-Los Banos			1		1
University of the Philippines-Manila	2		4		6
UP-Integrated School		7			7
Total	213	105	105	28	451

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Number of Hours	2017	2018	2019	2020	Total
35			5		5
72		1	1		2
80	34	43	49	22	148
90				1	1
100	8	4			12
120	15	4	3		22
144	1		1		2
150	15	7			22
160			4		4
162	3				3
170			1		1
180	1				1
200	55	20	13		88
240	33	14	14		61
250	10				10
280	3		4		7
300	13		3		16
320			2		2
324	3	5			8

Number of Hours	2017	2018	2019	2020	Total
360	10	3	5	4	22
380		2			2
400	3	2			5
450	1				1
500	3				3
520	2				2
560				1	1
Total	213	104	106	28	451



Figure 31. Frequency of trainees (Total from 2012 – 2016) per number of hours rendered in the OJT program

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Republic of the Philippines Department of Science and Technology PHILIPPINE NUCLEAR RESEARCH INSTITUTE