

Overview of the Human Resource Development (HRD) and Workforce Planning (WP) Requirements for a Nuclear Power Programme

Angelina V. Manga, CESO IV

Director, Administrative Services

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Human Resources Infrastructure

- Secondary (and primary) education system with strong math and science components, to prepare for, and stimulate interest in, science and engineering careers;
- Technical/Vocational schools to create good skilled artisans/ technicians in different engineering and technical disciplines;
- University programmes for (nuclear) engineering and science professional staff (and allied professions e.g. Chemistry, Business, Finance, Human Resources, etc.);
- Creating 'Outreach' programmes to engage students in nuclear programmes and stimulate career interest.

Skills for Nuclear versus Nuclear Skills

- Skills required to support the nuclear programme will be a range of engineering, project management and construction skills
- Demand for nuclear specific skills and capability limited to specific key activities
- Non-nuclear science and engineering degree qualifications often preferable to nuclear specific degrees

NPP Personnel Composition

NPP personnel - highly specialized, trained, motivated Functional composition

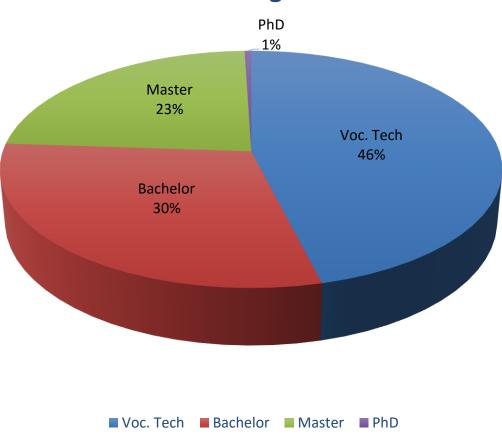
- -Management Operation
- -Engineering support
- -Maintenance and repair
- -Nuclear, radiation and industrial safety
- -Security and physical protection
- _Administration
- _Training centre

Responsibility level

- -Category A. Licensed personnel: Top-level managers, MCR personnel
- -Category B. Middle-level managers and specialists (engineers)
- _Category C. Technicians, workers

Education Levels Required for NPP

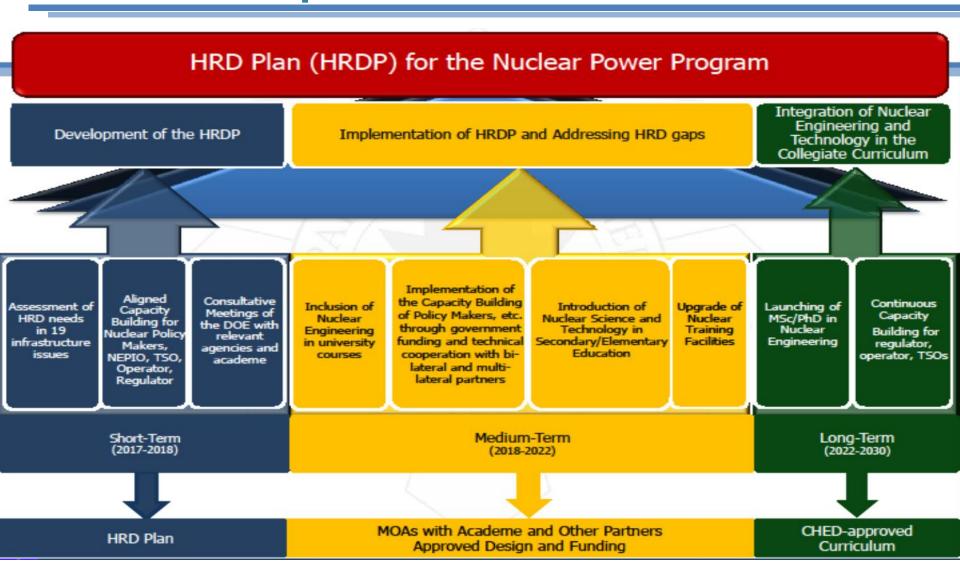




Example of NPP Staffing Schedule

	Years of construction						
	1	2	3	4	5	6	Total
1 unit	Construction			Commissioning	Startup		
2 unit		Construction			Commissioning Startup		
NPP Divisions							
Top Management		12	0	0	0	0	12
Operation		21	30	93	270	220	634
Technical support		0	5	16	16	13	50
Maintenance		0	5	14	123	152	294
Nuclear, radiation and industrial safety		0	6	9	5	2	22
Security and physical protection		2	12	12	25	41	92
Administration		8	12	16	3	3	42
Training centre		5	7	11	7	0	30
TOTAL		48	77	171	449	431	1176

HR Roadmap



Thank You!



(+632) 479-2900



name@doe.gov.ph



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