









ILSAS Reason for existence is to Churn Out Competent Workforce





TNB Integrated Learning Solution - ILSAS



COMPETENCY

• Observable abilities, skills, knowledge, motivations or traits defined in terms of the behaviours needed for successful job performance

TECHNICAL COMPETENCY

• Competencies required and desired to ensure effective performance in specific area of expertise*

*An individual's knowledge and expertise in the specific group task and its processes, that is, knowledge of the skills, strategies and its rules and regulations.

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Market Segmentation LECTRICAL 21-22 July 2011, KLCC **Target Market Participant Category** • Industry (power utility, oil & gas and other related) • Regulators (Energy Commission, DOSH) • Government and nation • International (regional -• Youth & school-leavers ASEAN & MENA) (skills training program) 7/15/2011 TNB Integrated Learning Solution - ILSAS

Our Clients					
LOCAL	 TNB (& Subsidiaries) SESB Petronas ESSO Sejingkat Power Independent Power Producers Government Bodies Companies/ Contractors/ Individuals Training Agencies & Institutions 	INTERNATIONAL	 Bosnia Elektroprivreda Electricite Du Laos Nepal Electricity Authority National Electricity of Ceylon PT Power Gen/PLN Indonesia Liberty Power Pakistan ABB Taiwan EVN Vietnam EEHC Egypt Mongolian EGAT Cambodia via Japan pjt 		

Training Products - Regulatory Requirement



Chargeman Path





Accredited Training (Regulator "EC")

COMPETENT ENGINEER & Chargeman - SET UP (DIVISION, STATE, REGION/PLANT LEVEL)





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Training Products – Engineering



Training Products – Engineering



Training Products – Leadership, Management & IT





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• Certified; Recognized.

- official approval to do something
- officially accepted as being of a satisfactory standard





Career & Competency Development



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Field	FUNCTIONAL & TECHNICAL – KNOWLEDGE & SKILL			
Grade	GENERATION	TRANSMISSION	DISTRIBUTION	
E16 /E17	ADVANCED (Area & Field)	ADVANCED (Area & Field)	ADVANCED (Area & Field)	
E14 /E15	INTERMEDIATE (Area & Field)	INTERMEDIATE (Area & Field)	INTERMEDIATE (Area & Field)	
E12 /E13	GENERIC TECHNICAL (+ HANDS-ON) Area & Field: • Operation • Mechanical • Electrical • Control & Instrumentation	GENERIC TECHNICAL (+ HANDS-ON) Area & Field: • Substation • Overhead line • Protection • Tele-control • Telecommunication • Planning • Operation & Control	GENERIC TECHNICAL (+ HANDS-ON) Area & Field: • Operation (RCC) • Operation & Maintenance • Planning • Construction • Metering	
	Common module • Electrical Safety, Act & Regulation • Power system overview • Professional Engineer (BEM/IEM) training			

Example: Structured Engineer's Training

Capability &	& Strength	
Product	Infrastructure	
GenerationTransmission	• Simulators:	
Distribution	300MW Coal-Fired	-
Career Development	 300MW Combined-Cycle 11kV & 33kV 	and the
 Specific Regulatory Requirement: 	• LV/HV	
 Energy Commission of Malaysia for 	• RTU-SCS	
Electrical	• Live Line (Transmission)	
 Department of Occupational Safety 	• Workshop & Labs:	R That
& Health of Malaysia for Mechanical	 Welding & machining Cable jointing 	
Experts	Non-Destructive Testing	
	Metering	
Pool of Experts	Protection	7
Trainers / Operation Engineers /	 Sub-Operation Electric & Instrumentation 	
Academicians / Researchers	Electric & Instrumentation HVAC	
Training Partners	Vibration & Balancing	
7/15/2011 TNB Integrated Learning Solution - IL	Thermography	



Capability & Strength - PEOPLE

	Numbers of certified trainers / staff	Awarded by
Certified Training Practitioner	181	ILSAS, ARTDO International, ITD, IAF
Master & Degree Holders	64	Local & International Universities
Diploma & Certificate Holders	78	Local & International Polytechnics & Universities
Technical/ Professional certification 81		Energy Commission, CSWIP, BGAS, PCN (BINDT), DOSH, NLP, MLVK/JKM, others
Professional Eng.	7	IEM/BEM
TOTAL	411	
*Data accurate as of May 2011	Catego	ory Trainer Support Total
	Execut	ive 87 24 111
	Non-ex	ec 46 85 131
TNB In	tegrated Learnin TOTA	L 133 109 242











Satellite Training O.K Kinabal Beseri Centers THAILAND u, **Alor Setar** Sabah Ketereh Sg Petani 1. Alor Setar, Kedah ILP Sik 1. Kepala Batas, P 2. Bandar Perda, P Bandar Perd Pasir Mas Besut Pinang Pinang Kepala Batas Bukit Kuala 2. Kota Kinabalu, 3. Ketereh, Kelantan Terengg KELANTAN Kuste Sabah 4. Kuala Terengganu, Mertaja Gus TERENGO anu MARA Terengganu m 5. Kepong, Kuala 1. KKTM Pasir MAS <u>//alim</u> 2. IKM Kota Kinabalu Lumpur Lumu 6. Temerloh, Pahang Nawar 3. IKM Besut 7. Port Dickson, Negeri 4. IKM Jasin Sembilan 5. IKM Kuala Lumpur 8. Muar, Johor TemerlohPekan Kuala 6. IKM Johor Bahru 9. Kulai, Johor Lump 7. IKM SIK <u>IKBN</u> ur 8. IKM Beseri 1. Bukit Mertajam, 9. IKM TSYA, Pekan Port Dickson Alor Gajah P Pinang 10. IKM Lumut 2. Alor Gajah, Melaka Jasin 11. IKM Sg Petani Muar Kulalohor Bahru **O** ILSAS O Satellite Training Centre

TNB Satellites













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"Building Experts Through Learning Intervention"

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