



Certification of Training Academies

Engineering Council of South Africa - ECSA

Mr J Cato (PrEng) - Executive: Policy Development & Standards Generation

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“Education is not the learning of facts but the training of the mind to think”
Albert Einstein

“Tell me and I forget, teach me and I may remember, involve me and I learn”

Benjamin Franklin



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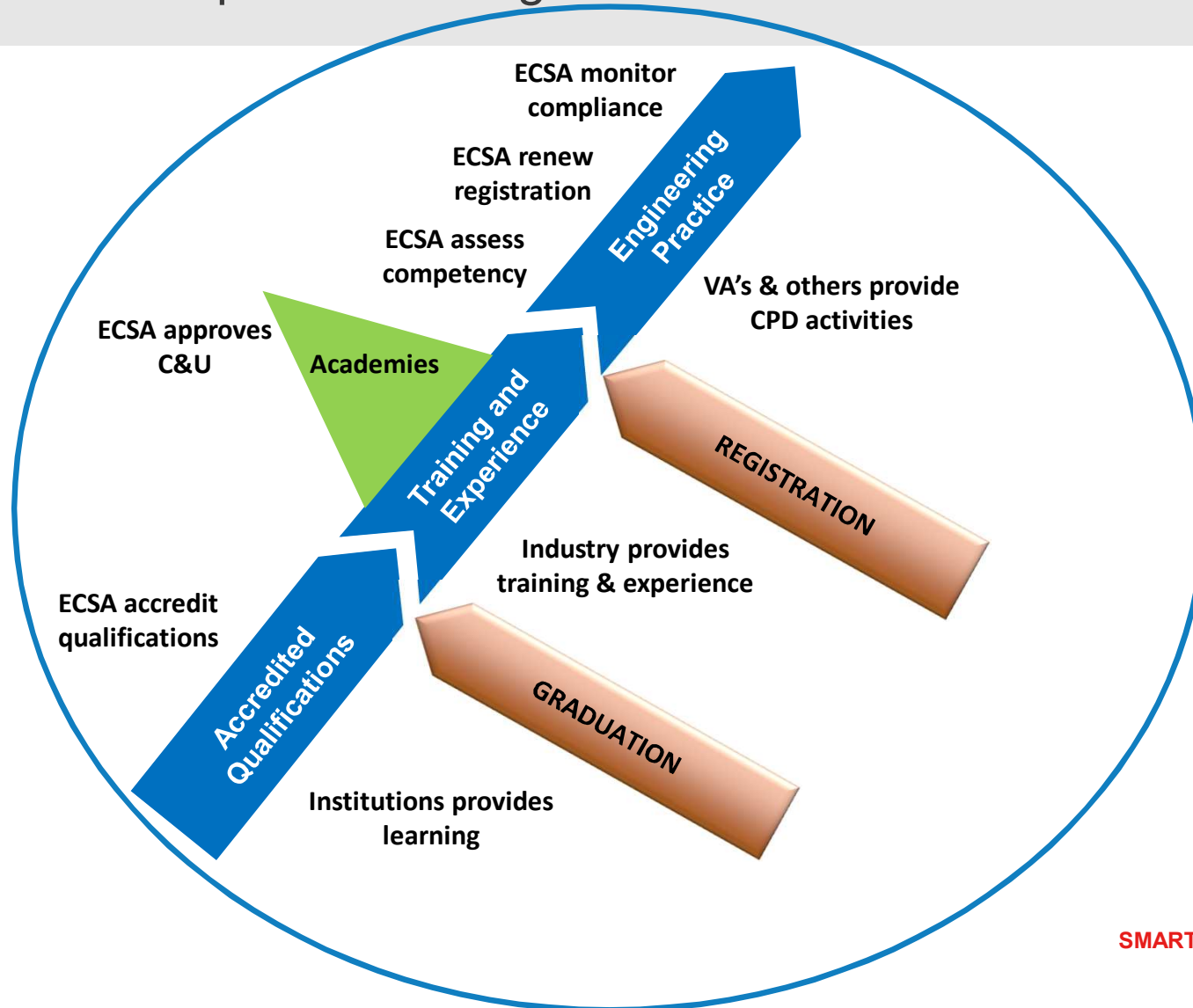




Professional Development Training Model



Professional Development Training Model





Objectives of Academy Certification



Objectives of Academy Certification

- To ensure the structured training is aligned to ECSA outcomes
- To ensure candidates experience real engineering projects
- To ensure the quality of the training programme meets the ECSA standard
- To streamline / reduce application approval times
- To encourage improvement and innovation in the training programme
- To facilitate Incremental Logging of various reports
- To enable the candidate and employer to monitor progress
- To quality assure the training programme for a period up to 4 years





Example - Incremental Logging



Example - Incremental Logging



Incremental Logging Example

OUTCOMES	DEGREE OF RESPONSIBILITY				
	A	B	C	D	E
Outcome 1	2%	4%	6%	8%	10%
Outcome 2	2%	4%	6%	8%	10%
Outcome 3	2%	4%	6%	8%	10%
Outcome 4	2%	4%	6%	8%	9%
Outcome 5	2%	3%	4%	6%	8%
Outcome 6	2%	4%	6%	8%	9%
Outcome 7	2%	3%	4%	6%	8%
Outcome 8	2%	3%	4%	6%	8%
Outcome 9	2%	3%	4%	6%	8%
Outcome 10	2%	3%	4%	6%	8%
Outcome 11	2%	3%	4%	6%	8%
Legislation Exposure	0%	1%	2%	3%	4%

17%



Example - Incremental Logging



Example - Incremental Logging

OUTCOMES	DEGREE OF RESPONSIBILITY				
	A	B	C	D	E
Outcome 1	2%	4%	6%	8%	10%
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Outcome 5	2%	3%	4%	6%	8%
Outcome 6	2%	4%	6%	8%	9%
Outcome 7	2%	3%	4%	6%	8%
Outcome 8	2%	3%	4%	6%	8%
Outcome 9	2%	3%	4%	6%	8%
Outcome 10	2%	3%	4%	6%	8%
Outcome 11	2%	3%	4%	6%	8%
Legislation Exposure	0%	1%	2%	3%	4%

91%



Example - Incremental Logging





Academy Certification Criteria



Academy Certification Criteria

- 7 **Criterion 5.2 Review and Improvement of Programme**
- 6 **Criterion 5.1: Identified Deficiencies and Concerns**
- 5 **Criterion 4.1 Sustainability of Training Programme**
- 4 **Criterion 4.1: Resourcing of Training Programme**
- 3 **Criterion 3: Suitably Qualified Mentors**
- 2 **Criterion 2: Work Horizon**
- 1 **Criterion 1: Competency Outcomes**





Academy Certification Types



Academy Certification Types

- Initial Desktop Evaluation - 1st evaluation
- Provisional Certification – Evaluation after 2years
- Certification - Evaluation at 4 year intervals
- Interim & Final visits – Ad-hock





Academy Certification Process



SMARTER approaches in Asset Management



Academy Certification Process

- Initial Desktop Evaluation
 - Complete Self Study
 - Make application to ECSA – Fee R20,000
 - ECSA evaluates application – Certification Team of Peers (8 weeks)
 - Decision – Central Registration Committee (Next Scheduled Meeting)
 - Issue Certificate (1 Week)
 - Update List of Certified Academies & Publish on Website (1 Week)



Academy Certification Process

- Provisional & Regular Certification Visits
 - ORG reminded of upcoming visit requirements (5 months prior)
 - ORG submits required documents - Complete Self Study (3 months prior)
 - ECSA informs ORG of Certification Team (8 weeks prior)
 - Team visits ORG on site (1.5 days)
 - Finalise report (5 weeks)
 - Decision – Central Registration Committee (Next Scheduled Meeting)
 - Issue Certificate (1 Week)
 - Update List of Certified Academies & Publish on Website (1 Week)



Academy Certification Process

- Interim & Final Report Evaluations
 - Similar to that of the Provisional and Regular Visits





Suite of Documents



Suite of Documents

- **The following documents define the Certification of Academies for the Council**
 - A-01-POL Training Academy Policy
 - A-02-STA Training Academy Certification Criteria
 - A-03-POL Training Academy Certification Policy
 - A-04-PRO Training Academy Certification Process
 - A-05-GL Training Academy Reporting Templates
 - A-06-TEM Training Academy Self-Study Requirements
 - A-07-PRO Training Academy Appeal Process
 - A-08-GL List of Certified Training Academies





Conclusion

Conclusion

- Academy Certification is to quality assure the training of engineers
- Facilitate tracking of candidates progress
- Shorten turnaround times
- Facilitate these applications through our Head Office and also through newly established contact centres
 - Kwazulu Natal –
 - Eastern Cape –
 - Western Cape –
 - Free State –
- ECSA have launched their online platform for all registered persons.

