

UK SPEC and the **RAPID** Progress File:

A Tool for Academic, Personal and Professional Development in Engineering

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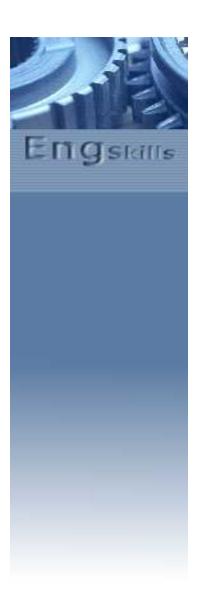




Overview

- Introduction
- Engineering Competences and UK-SPEC
- The RAPID Progress File
- RAPID and UK-SPEC
- Conclusion





Introduction

- Background
- Aim
 - Methodology
 - RAPID
 - UK-SPEC





Engineering Competences and UK-SPEC

- More flexible and transparent registration procedure
- Two separate documents: CEng/IEng and EngTech
- Competence-based assessment and Output Standards Framework
- No reduction in the levels of competence
- Fewer competence substatements



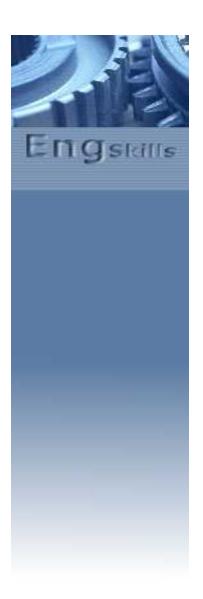


UK-SPEC vs SARTOR 3

- CEng and IEng
 - Emphasis on personal and social skills
 - Emphasis on sustainable development
- Eng Tech
 - Inclusion of/emphasis on (practical and technical) skills
 - Increased emphasis on effective communication and interpersonal skills
 - Emphasis on involvement with own licensed institution









 Web - based Personal and Professional Development Planning (PDP) Tool

- Recording
- Academic,
- Professional and
- Individual
- Development









Development and Implementation

- 1998 2000 / 2000 200**3**
 - January 2003 Dec 2004
- ESF funding (2003-04)
- 3000 + students
- 14 HE Institutions
- 8 Versions
 - plus a UK-SPEC compliant generic Engineering version.







Benefits of using RAPID

- Comprehensive Record of Achievement
- Framework to audit, record, monitor skills/competences
- A set of personal attributes, and Skills (Key, Personal and Professional and Technical)
- A means to determine skill gaps and make action plans
- An online, web-based tool
- A means to ease transition from study to lifelong professional development
- Personal awareness
- CV / Application Forms / Interviews
- Access to Online Skills Resources
- Minimal time commitment
- Online help

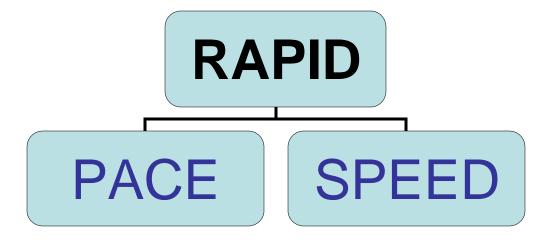






The Structure of **RAPID**









Types of Skills in RAPID

Key Skills

QCA Specifications

Personal and
Professional Skills
PDP/CPD

Skills

Technical Skills

- Communication
- Application of Number
- · IT
- Working with Others
- Problem Solving
- Improving own learning and performance

- Self-Management
- Organizational Management
- Intellectual Skills
- Interacting with Others
- Professional awareness
- Tendering
- Managing costs
- Project management
- Technical reports
- Technical drawings

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COMPETENCE LEVELS

Statement of competence	Corresponding NVQ/GNVQ level					
Statement A	Level 2					
Trainee						
Statement B	Level 3					
Supervised Practitioner						
Statement C	Threshold levels 3/4					
Practitioner						
Statement D	Threshold levels 4/5					
Expert						

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		ĺ	UK -SPEC														
RAPID		Engineer knowledg and	A Engineering knowledge and understanding		B Apply theoretical and practical methods to the analysis and solution of engineering problems		Provide technical and commercial leadership				D Demonstrate effective interpersonal skills			E Professional conduct			
		A1	A2	B1	B2	В3	C1	C2	C3	C4	D1	D2	D3	E1	E2	E3	E4
KEY SKILL																	<u> </u>
•	Communication																
•	IT																
	Application of Number																
•	Working with others																
•	Improving Own Learning & Performance																
•	Problem Solving																
PERSONAL PROFESSIC SKILLS																	
•	Self - Management																
•	Organisational Management																
•	Interacting with others																
•	Professional Awareness																
•	Intellectual Skills																
TECHNICA																	
•	Tendering																
•	Managing costs																<u> </u>
•	Project Management																
•	Technic al Reports																
•	Technical Drawings																
PERSONAL ATTRIBUT	ES																
•	Initiative Taking																
•	Assertiveness																
•	Adaptability																
•	Motivation																
•	Resilience																

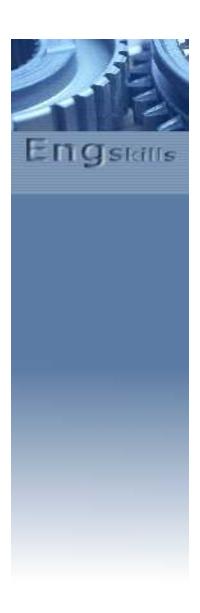


Conclusion

- Complete coverage of UK-SPEC competences in RAPID
- RAPID for skills audit/development/monitoring: company requirements & professional registration
- RAPID eases transition from undergraduate study to a lifelong PD
- Visit
 - http://engskills.lboro.ac.uk/abe/
 - http://rapidprojects.lboro.ac.uk
 - http://rapid.lboro.ac.uk







Any Questions?



