Statement of Requirement (SoR)

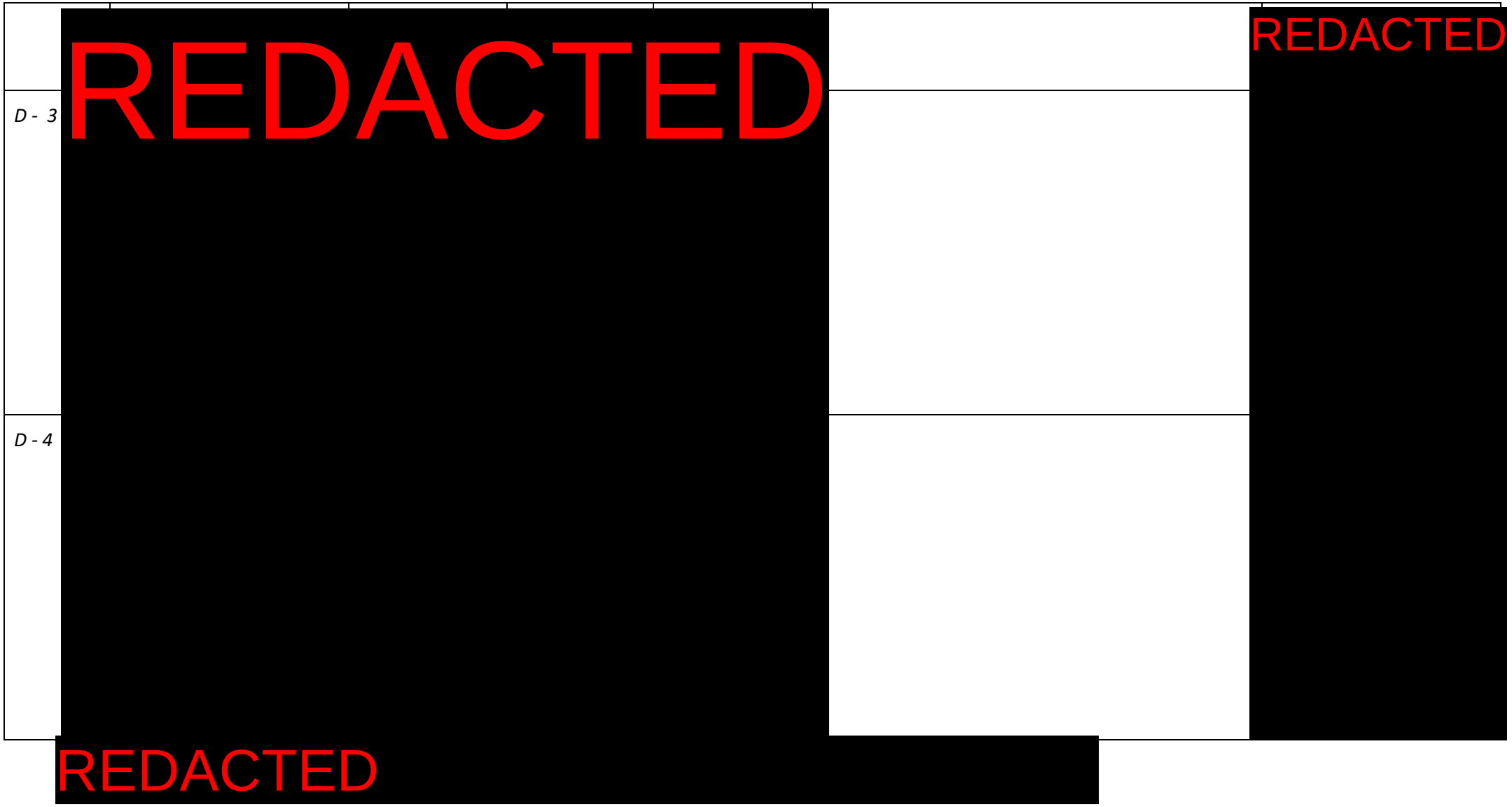
REDACTED

Reference Number	REDACTED
Version Number	REDACTED
Date	REDACTED

1.	Requirement
1.1	**Title**
	Radio Frequency Foundation Course
1.2	**Summary**
	Dstl requires a course that is a comprehensive online Radio Frequency (RF) and microwave engineering course, this is required to get new starters including graduates and apprentices up to knowledge in RF and microwave communications and measurements without the time and cost of learning on the job.
1.3	**Background**
	Dstl has found that when recruiting graduates from university are lacking basic radiofrequency skills that Dstl requires for the ongoing work in many technical areas. We require all graduates to have the same base level of knowledge in RF to be able to start the graduates on project work. A course is required to give graduates an entry level of knowledge within the RF field to start their placements.
1.4	**Requirement**
	The course must cover the following objectives and not deter away from these topics;

	• Understand fundamental characteristics of RF waves • Define common RF and microwave terms such as dB and dBm • Describe different types of transmission line and their properties • Describe common components used in RF, wireless and microwave systems • Understand the fundamentals of RF propagation • Understand digital modulation and various modulation methods • Describe various RF, wireless and microwave measurement parameters • Know how to use a range of RF, wireless and microwave measurement equipment • Reduce the risk of expensive test equipment damage, downtime and repair costs The course is required to be delivered online only, with no face to face training. This is due to relocation of individuals and their workplace. The course also needs to be approved by Institute of Electrical and Electronics Engineers (IEEE). Once delegates complete the training they should receive the following qualifications and certificates; • Foundation Diploma in RF and Microwave Engineering • IEEE certificate of completion issued by IEEE • IEEE Continuing Education Units (CEUs) • 15 IEEE Professional Development Hours (PDHs)
1.5	**Options or follow on work**
	Not Applicable

1.6	Deliverables & Intellectual Property Rights (IPR)					
Ref.	**Title**	**Due by**	**Format**	**Expected classification (subject to change)**	**What information is required in the deliverable**	**IPR DEFCON/ Condition** *(Commercial to enter later)*
D – 1	REDACTED					REDACTED
D - 2						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D - 3
D - 4
REDACTED

1.7	**Deliverable Acceptance Criteria**

	REDACTED
	• The course must cover the following objectives and not deter away from these topics;
	  ○ Understand fundamental characteristics of RF waves
	  ○ Define common RF and microwave terms such as dB and dBm
	  ○ Describe different types of transmission line and their properties
	  ○ Describe common components used in RF, wireless and microwave systems
	  ○ Understand the fundamentals of RF propagation
	  ○ Understand digital modulation and various modulation methods
	  ○ TBCDescribe various RF, wireless and microwave measurement parameters
	  ○ Know how to use a range of RF, wireless and microwave measurement equipment
	  ○ Reduce the risk of expensive test equipment damage, downtime and repair costs
	• The course is required to be delivered online only, with no face to face training.
	• Once delegates complete the training they should receive the following qualifications and certificates;
	  ○ Foundation Diploma in RF and Microwave Engineering
	  ○ IEEE certificate of completion issued by IEEE
	  ○ IEEE Continuing Education Units (CEUs)
	  ○ 15 IEEE Professional Development Hours (PDHs)
	• Be accredited by Institute of Electrical and Electronics Engineers (IEEE).

2.	**Quality Control and Assurance**
2.1	**Quality Control and Quality Assurance processes and standards that must be met by the contractor**
	REDACTED

2.2	Safety, Environmental, Social, Ethical, Regulatory or Legislative aspects of the requirement
	REDACTED

3.	Security	
3.1	Highest security classification	
	Of the work	REDACTED
	Of the Deliverables/ Output	
3.2	Security Aspects Letter (SAL)	
	REDACTED	
3.3	Cyber Risk Level	
	REDACTED	
3.4	Cyber Risk Assessment (RA) Reference	
	REDACTED	

REDACTED

4.	Government Furnished Assets (GFA)
REDACTED	

5.	Proposal Evaluation criteria

5.1	**Technical Evaluation Criteria**

REDACTED

REDACTED

5.2	**Commercial Evaluation Criteria**

REDACTED

6.	**Defcons**
Defcon:	**Covering:**
76	*Contractors are required to work at MOD premises*
539	*Transparency*
703	*Intellectual Property Rights - Vesting In The Authority*
532B	*Protection of Personal Data*
532	*Personal Data Particulars*