|  |  |  |  |
| --- | --- | --- | --- |
| **Qualification Code** |  | **Qualification Name and Release Number** |  |
| **Unit Code** | UEPOPS52A | **Unit Name** | Co-ordinate and direct switching program |

|  |  |  |
| --- | --- | --- |
| **Summary of Assessment Events** | | |
| **Event Number/Name** | **Description** | **Assessment Method** |
| *Task 1* | ***Presentation:*** *Deliver task briefing to a group.* | Choose an item. |
| Assessment 1 | Knowledge on marine electrical equipments | *Written* |
| Assessment 2 Practical/ Observation | Observe and assess the practical and workplace performance of co-ordinating and directing switching programs | *Observation* |

| Evidence Requirements | | | **Assessment Methods** | | | | | | **Learner Resources** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Ways in which evidence will be collected (E.g. Written, observation etc.) | | | Written | Practical | Observation | Oral Questioning | Portfolio | Add assessment method |  |
| **Element** | **Performance Criteria**  (Indicate where each element/performance criterion will be assessed. E.g. Task 1, Q4 etc.) | | | | | | | |  |
| Prepare for switching program |  |  |  |  |  |  |  |  |  |
|  | 1.1 | Qualifications/authorisations of personnel performing switching operations are established |  | Check List 1 a  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs | Check List 1 a  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs |  |  |  |  |
|  | 1.2 | Occupational health & safety standards, statutory/enterprise regulations, codes of practice and environmental requirements are identified, applied and monitored throughout the program |  | Check List 1 b  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs | Check List 1 b  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs |  |  |  |  |
|  | 1.3 | Contingency plans are evaluated and discussed with appropriate stakeholders and, where necessary, amendments are relayed to all relevant parties |  | Check List 1 c  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs | Check List 1 c  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs |  |  |  |  |
|  | 1.4 | Permits and access requirements are established prior to program commencement |  | Check List  1 d  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs | Check List  1 d  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs |  |  |  |  |
|  | 1.5 | Documentation is distributed to relevant parties prior to program commencement |  | Check List  1 e | Check List  1 e |  |  |  |  |
|  | 1.6 | Where appropriate, the teams and individuals roles and responsibilities within the team are identified and, where required, assist in the provision of the on-the-job training |  | Check List  1 f  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs | Check List  1 f  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs |  |  |  |  |
| Direct switching program |  |  |  |  |  |  |  |  |  |
|  | 2.1 | All parties involved in switching program are advised and directed to locations |  | Check List  2a  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs | Check List  2a  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs |  |  |  |  |
|  | 2.2 | Communication is established with all involved parties and maintained throughout duration of program |  | Check List  2b  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs | Check List  2b  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs |  |  |  |  |
|  | 2.3 | System schematic diagram or equivalent is updated as program proceeds |  | Check List  2c  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs | Check List  2c  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs |  |  |  |  |
|  | 2.4 | Access to plant is controlled in accordance with enterprise/site policy |  | Check List  2d  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs | Check List  2d  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs |  |  |  |  |
|  | 2.5 | Work groups are coordinated and directed in accordance with enterprise procedures |  | Check List  2e  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs | Check List  2e  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs |  |  |  |  |
|  | 2.6 | Permits issued are monitored and recorded in accordance with enterprise procedures |  | Check List  2f  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs | Check List  2f  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs |  |  |  |  |
|  | 2.7 | Switching program is controlled to ensure outage coincides with planned timetable |  | Check List  2g  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs | Check List  2g  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs |  |  |  |  |
| Maintain dynamic integrity of system |  |  |  |  |  |  |  |  |  |
|  | 3.1 | Switching program steps are verified before and after each operation |  | Check List  3a  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs | Check List  3a  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs |  |  |  |  |
|  | 3.2 | Steps are logged upon successful completion of each operation |  | Check List  3b  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs | Check List  3b  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs |  |  |  |  |
|  | 3.3 | System conditions/stability is constantly monitored in accordance with system requirements |  | Check List  3c  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs | Check List  3c  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs |  |  |  |  |
|  | 3.4 | Alternative program steps are quickly and accurately developed if/when unexpected problems occur |  | Check List  3d  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs | Check List  3d  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs |  |  |  |  |
| Complete documentation | 4.1 | Documentation is updated and equipment problems, abnormalities and status are reported and logged in accordance with enterprise/site procedures |  | Check List  3e  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs | Check List  3e  In UEPOPD525A  Of  UEPOPS Units Wk Plc Obs |  |  |  |  |

| **Required Skills** (must be mapped to the tasks) | **Assessment Methods** | | | | | | **Learner Resources** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **The evidence must show the candidate can:** | Written | Practical | Observation | Oral Questioning | Portfolio | Add assessment method |  |
| REQUIRED SKILLS AND KNOWLEDGE |  |  |  |  |  |  |  |
| 8) **This describes the essential skills and knowledge and their level, required for this unit.** |  |  |  |  |  |  |  |
| **Evidence shall show that knowledge has been acquired co-ordinating and directing switching programs.** |  |  |  |  |  |  |  |
| **The extent of the Essential Knowledge and Associated Skills required follows:** |  |  |  |  |  |  |  |
| **KS01-PO525A Switching program** |  |  |  |  |  |  |  |
| **T1 Evidence shall show that knowledge has been acquired for safe working practices of:** |  |  |  |  |  |  |  |
| * Relevant environmental, occupational health and safety legislation and regulations | A1 |  |  |  |  |  |  |
| * Enterprise procedures |  |  | A2 |  |  |  |  |
| * Plant drawings and manufacturers manuals | Q7/8 |  |  |  |  |  |  |
| * Introduction to and typical arrangements of power production plant | Q1/2 |  |  |  |  |  |  |
| * Relevant plant and equipment, its location and operating parameters | Q5/6/11/12 |  |  |  |  |  |  |
| * Relevant state and territory regulations |  |  |  | A2 |  |  |  |
| * Switchgear types and characteristics | Q9/10 |  |  |  |  |  |  |
| * Electrical protection types and characteristics | Q3/4 |  |  |  |  |  |  |
| * Electrical principles | Q1/2 |  |  |  |  |  |  |
| * a.c. generators types and characteristics | Q1/2 |  |  |  |  |  |  |
| * Transformers types and characteristics | Q1/2 |  |  |  |  |  |  |
| * Risk management |  |  | A2 |  |  |  |  |
| * Leadership techniques |  |  | A2 |  |  |  |  |
| * Plant status |  | A2 | A2 |  |  |  |  |
| * Enterprise recording procedures |  |  |  |  | A2 |  |  |
| * Switching operations and procedures |  | A2 |  |  |  |  |  |
| * System diagrams | Q7/8 |  |  |  |  |  |  |
| * Systems (network) | Q3/4 |  |  |  |  |  |  |
| * Computers and software | Q7/8 |  |  |  |  |  |  |
| **T2 Specific skills needed to achieve the Performance Criteria:** |  |  |  |  |  |  |  |
| * Interpret plant drawings and manufacturers manuals | X |  |  |  |  |  |  |
| * Apply relevant state and territory regulations |  |  |  | X |  |  |  |
| * Apply enterprise recording procedures |  |  | X |  |  |  |  |
| * Identify plant status |  | X |  |  |  |  |  |
| * Communicate effectively |  |  | X |  |  |  |  |
| * Acquire and analyse information relevant to system operation |  | X |  |  |  |  |  |
| * Recognise abnormal plant/system operating conditions |  | X |  |  |  |  |  |
| * Determine appropriate corrective actions required |  | X |  |  |  |  |  |
| * Plan and prioritise work |  |  | X |  |  |  |  |
| * Acquire and analyse information relevant to system operation |  |  | X |  |  |  |  |
| * Recognise abnormal plant/system operating conditions |  |  | X |  |  |  |  |
| * Apply leadership techniques |  |  | X |  |  |  |  |
| * Determine appropriate corrective actions required. |  |  | X |  |  |  |  |

| **Knowledge Evidence** | **Assessment event 1**  **Written Test** | **Assessment event 2**  **Practical** | **Assessment event 3**  **Observation** |
| --- | --- | --- | --- |
| Starters for Alternating Current Motors/Generators | Q1+2 +3of Test |  |  |
| Cable Insulation and Ingress Protection | Q4 of Test |  |  |
| Propulsion Systems | Q5+6 of Test |  |  |
| Steering and Stabiliser Systems | Q7 of Test |  |  |
| Deck Machinery | Q8+9 of Test |  |  |
| Control of Air Compressors | Q10 of Test |  |  |

| **Critical Aspects** | **Assessment Methods** | | | | | | **Learner Resources** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **The evidence must show the candidate can:** | Add assessment method | Add assessment method | Add assessment method | Add assessment method | Add assessment method | Add assessment method |  |
| Critical aspects of evidence required to demonstrate competency in this unit |  |  |  |  |  |  |  |
| 9.2)**Before the critical aspects of evidence are considered all prerequisites shall be met.** |  |  |  |  |  |  |  |
| **Evidence for competence in this unit shall be considered holistically. Each element and associated Performance Criteria shall be demonstrated on at least two occasions in accordance with the “Assessment Guidelines – UEP12”. Evidence shall also comprise:** |  |  |  |  |  |  |  |
| * A representative body of work performance demonstrated within the timeframes typically expected of the discipline, work function and industrial environment. In particular this shall incorporate evidence that shows a candidate is able to: |  |  |  |  |  |  |  |
| * **Implement Occupational Health and Safety workplace procedures and practices including the use of risk control measures as specified in the Performance Criteria and Range Statement** |  |  |  |  |  |  |  |
| * **Apply sustainable energy principles and practices as specified in the Performance Criteria and Range Statement** |  |  |  |  |  |  |  |
| * **Demonstrate an understanding of the essential knowledge and associated skills as described in 6) Essential Knowledge and Associated Skills of this unit** |  |  |  |  |  |  |  |
| * **employability skillsConduct work observing the relevant Anti Discrimination legislation, regulations, polices and workplace procedure** |  |  |  |  |  |  |  |
| * Demonstrated performance across a representative range of contexts from the prescribed items below: |  |  |  |  |  |  |  |
| * **Occupational Health and Safety legislation; Statutory legislation; Enterprise/site safety procedures; Enterprise/site emergency procedures** |  |  |  |  |  |  |  |
| * **Preparing for switching programs** |  |  |  |  |  |  |  |
| * **Directing and coordinating switching programs** |  |  |  |  |  |  |  |
| * **Monitoring system integrity and stability** |  |  |  |  |  |  |  |
| * **Dealing with an unplanned event by drawing on essential knowledge and skills to provide appropriate solutions incorporated in the holistic assessment with the above listed items.** |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |

| **Dimensions of Competency to be incorporated into the tasks/assessment** | **Assessment Methods** | | | | | | **Learner Resources** |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Which assessment event/s allow the learner to demonstrate the following | Add assessment method | Add assessment method | Add assessment method | Add assessment method | Add assessment method | Add assessment method |  | |
| Task Skills (undertaking the specific task/s required to complete a work activity to the required standards) |  |  |  |  |  |  |  | |
| Task Management Skills (able to do more than one thing at a time and managing the tasks correctly) |  |  |  |  |  |  |  | |
| Contingency Planning Skills (responding appropriately to irregularities and breakdowns in routine within a job or workplace) |  |  |  |  |  |  |  | |
| Job Role Environment Skills (able to deal with the responsibilities and expectations of the work environment) |  |  |  |  |  |  |  | |

LEARNER RESOURCES

**UEPOPS525A - Coordinate and direct switching program**

**Session 1 Revise**

**Session 2 Motors**

**2.Induction motor.zip (13.17MB)**  
[http://www.filefactory.com/file/6sk5rxibt5of/n/2.Induction\_motor.zip](http://grid.filefactory.com/wf/click?upn=8tIX75zmv4pcsn9X2kg5JPXYkvZKM0XicLE0Xe5UtbxYbd7BYLxOBDkDy90Hvx7OtzT7fkbY-2FKkFVOHkqq6nFwIrtiKbD0ar0pp5C0St1gc-3D_v7TcKo3CcnPCP8zlK8SZehnLGxiqxn5RsshmUhilv-2FqF4qa2Ha1vnpEbfIc1vpxsvHhyiFzf27Wxl9aK7yvcCN-2Bxp3gPof2hNQB-2BQBliJsrOIRrDBNCD1FLIi0fKTwk7hUqdBCFx3X8V2uQlkrdqV-2B-2BJ3cau5g5K4kBQVBn-2BBwLC0ePfT6MjXjsePFYxl8TsN9R7QwM-2BusMt-2F35HNR3qGFG6qqJYq8v0g4BDkcuU62A-3D)

**5.Multiphase system, AC DC Motor, Induction motor.zip (19.51MB)**  
[http://www.filefactory.com/file/18ncc34l177h/n/5.Multiphase\_system,\_AC\_DC\_Motor,\_Induction\_motor.zip](http://grid.filefactory.com/wf/click?upn=8tIX75zmv4pcsn9X2kg5JPXYkvZKM0XicLE0Xe5UtbxsxqCnsEifIogrikKJ-2Fau-2F2db2hg2qBLaX1N-2BUuOZDpTErCw7H3VbqHrDgIjaEBPOe-2F65k5pq-2F1cgdSX7LphEJe0kwEyuXWgM2GJnrcH7J-2Fw-3D-3D_v7TcKo3CcnPCP8zlK8SZehnLGxiqxn5RsshmUhilv-2FoM5nhMePvohlsNPlPaRGUMVTSfB6P96KH8lGnaSdZcNuyyw2rEfJzJHobpl4cxVhMkg1-2BxW4chDU7mBmvpRBjEAMmQQwPPjHGOQdMUb8pKBgyI-2FL93sxra-2BasSL6qrcKSl4WedI7V9REhA2-2Fgdf3aOshEEFa2x5TAuQ3fVPUZNkrn6kPYN4cakGPvNEkT85Pk-3D)  
  
**7.Motor starters.zip (30.51MB)**  
[http://www.filefactory.com/file/31xao8gwssnp/n/7.Motor\_starters.zip](http://grid.filefactory.com/wf/click?upn=8tIX75zmv4pcsn9X2kg5JPXYkvZKM0XicLE0Xe5UtbwmfnGxPQoXhKnWKYW7NOdnj8AxHEx9SgQJuZqqibwREoB8gTH3fCiqtQr6wPIxSag-3D_v7TcKo3CcnPCP8zlK8SZehnLGxiqxn5RsshmUhilv-2FoM5nhMePvohlsNPlPaRGUMVTSfB6P96KH8lGnaSdZcNuKShBfbTeXaiR6VQmIe0MTGTLPdrmE-2F6bqaBDIB-2BAOUeW4XS36lzCktuvOtXz229JLGyUCU6Tinc8BldqygI6kA3DByJR5oYqvo4oKYfp4sA9bEg9pVU5yR6J13eqQZLOb4uJKjhTyPR6a0VtGSKRE-3D)  
  
  
**10.Reduced voltage starting.zip (49.17MB)**  
[http://www.filefactory.com/file/522737cviiuv/n/10.Reduced\_voltage\_starting.zip](http://grid.filefactory.com/wf/click?upn=8tIX75zmv4pcsn9X2kg5JPXYkvZKM0XicLE0Xe5UtbwWg5pvummSh6eKXt-2F6h8OCemOELrqU6RzpJ70NAVAXHpqutyWFmW7N3kV-2FBjHHqS-2ByhTE07mndLsN03F253-2BIw_v7TcKo3CcnPCP8zlK8SZehnLGxiqxn5RsshmUhilv-2FoM5nhMePvohlsNPlPaRGUMVTSfB6P96KH8lGnaSdZcNvE32FkJgJx8vfbqzE9KK-2FauqTaN5LKKt-2BXqh9xMioTLVPAJC5CuD5fHgCGoswsJCm2lPLs9iU4psIHOcyw9HBrprPdfMsgK1mRJEDOyn3Ny7DJNO-2FVIu07T0ak1FPCjJZCdF8iu8aZ-2FpA0ZR151uFc-3D)  
  
**6.Motor starting, wound rotor motor, motor construction.zip (17.16MB)**  
[http://www.filefactory.com/file/6duxk3fi5uo9/n/6.Motor\_starting,\_wound\_rotor\_motor,\_motor\_construction.zip](http://grid.filefactory.com/wf/click?upn=8tIX75zmv4pcsn9X2kg5JPXYkvZKM0XicLE0Xe5Utbyh5gYO77V5R-2F-2BD-2BePf4zhpQ7jfvSLUUzTBhJlyJ51o8LjyE9BJuwNFn-2Flm-2FEZTe7Lz9NOJb3hRYQEGjR2xX3Yuo6oInsX-2BNt-2FAcc5w0fEgtJic5IUynyn4SncnchOZ-2BQg-3D_v7TcKo3CcnPCP8zlK8SZehnLGxiqxn5RsshmUhilv-2FoM5nhMePvohlsNPlPaRGUMVTSfB6P96KH8lGnaSdZcNjdzyBSteQ7Uq9QiTIamA-2BiI-2B3Qvbgg-2BsRRGCFKmA32gJd9Q0wWFSuqqDTTf3GR6Dg-2FYzgntIBPGZ-2FyoZ4BH3oc7WZsTAWeUH8DvsNFVoBRonxEAGuAkTDjtEjvNiYRvlsk1M4ZIO67HkVpPYUMhE60-3D)  
  
**9.Reduced starting methods.zip (14.84MB)**  
[http://www.filefactory.com/file/6us8jj9z4l3j/n/9.Reduced\_starting\_methods.zip](http://grid.filefactory.com/wf/click?upn=8tIX75zmv4pcsn9X2kg5JPXYkvZKM0XicLE0Xe5UtbxnQQteA3Yuo1UMzTEbxygqEHG-2F1LokmMXFOHumuIU20uvTXLBmOgHh9J04Mv4-2B3HVKSeqjJEMjHk-2BoiOwGD-2Bn7_v7TcKo3CcnPCP8zlK8SZehnLGxiqxn5RsshmUhilv-2FoM5nhMePvohlsNPlPaRGUMVTSfB6P96KH8lGnaSdZcNlxP-2F-2FpkEm24GETWVlple90T-2FLiywjKTEmcLwxZTmq6dSpeUtIIGN38MYEaybvEkorym6kc-2Fe6vX6V6KoalgXsiKcW47wyGppenuRqKIpYCVjT9l5HcHujKY4cUCu-2Fu3RCtg7IYoY1ZnM7KxtoQertw-3D)

**Session 3+4**

**Advanced topics Deck Machineries Part 1**

**525A Session 3+4.pdf (40.74MB)**  
[http://www.filefactory.com/file/5u5e3oc3rbsj/n/525A\_Session\_3+4.pdf](http://grid.filefactory.com/wf/click?upn=8tIX75zmv4pcsn9X2kg5JPXYkvZKM0XicLE0Xe5UtbzYQhQKUVPYIfz0F1DXbzQjr31tHuUeDNTxZEzHCdfDVR7CfwJ5xVTARbx8u1Rzrak-3D_v7TcKo3CcnPCP8zlK8SZehnLGxiqxn5RsshmUhilv-2FqF4qa2Ha1vnpEbfIc1vpxsvHhyiFzf27Wxl9aK7yvcCEe8t3vyRcwGfcw56IUH98jVXj-2B23gazUavltrIlH0LqxEWcsG7n0iYg-2Fao6kp4f-2BmL9BAmhbfm3GZlwzAWblNyJegDTgNa5zIYKCzS2WqXU1-2BjbT-2BL5VTFNrvUHwVaWYTB2js4FAgtOxH-2BFpDbDop4-3D)

**Session 5+6**

**Electrical Check**

**525A Session 5+6.pdf (11.3MB)**  
[http://www.filefactory.com/file/1osr2drf7u6v/n/525A\_Session\_5+6.pdf](http://grid.filefactory.com/wf/click?upn=8tIX75zmv4pcsn9X2kg5JPXYkvZKM0XicLE0Xe5Utbyu-2Fg4rvpySQwVANLZmcYIgfFfMNGaQL5sg-2F6UNIn5QxTdCie2PJ-2F5GqMfrFK24SLY-3D_v7TcKo3CcnPCP8zlK8SZehnLGxiqxn5RsshmUhilv-2FqF4qa2Ha1vnpEbfIc1vpxsvHhyiFzf27Wxl9aK7yvcCGjX1w63TSFC03RiWa-2BssLkbrSyzF-2Bo-2FF-2B089FI7hIlFl-2F6Il-2BeDp-2Bi0pzhs5ISYcHdL8fZYmNL-2BM2e6moCgVfgUKZq27z5C5QhGsAWwvBYMat9VgjRF-2FY3-2Bo4D5X2PhBmi-2Bxj8jYkLpg8yXd0-2BE4yE-3D)

**Session 7 Maintenance 1**

**Marine Electrical Check List - A Guide to Inspecting Marine Electrical Systems.pdf (0.14MB)**  
[http://www.filefactory.com/file/11gvmq3gc5zn/n/Marine\_Electrical\_Check\_List\_-\_A\_Guide\_to\_Inspecting\_Marine\_Electrical\_Systems.pdf](http://grid.filefactory.com/wf/click?upn=8tIX75zmv4pcsn9X2kg5JPXYkvZKM0XicLE0Xe5UtbzT9hW2CiQbLxNQcF8E27Ui77lD4xvGo5X6Tm1SKEdVaZn9MG26NyeafHJ6UbmCs-2FFEiDsA0nnL7ljO28DXUOap0NklNwPyhFKysXyp-2F33-2BFfypbPGEM638tBr0qgDA25O7LEkVpb-2FBz-2FnGpTAyh8hT_v7TcKo3CcnPCP8zlK8SZehnLGxiqxn5RsshmUhilv-2FoM5nhMePvohlsNPlPaRGUMVTSfB6P96KH8lGnaSdZcNlhIlKbOP9eQjaoExJeCpF8h6mQ-2BzgVODT8vYipukYppGmkUxup-2BNc74TmBObViCtZ0fsdD-2FhYrCJFVnWTCJEVGQx9nupgC608xz-2BoFwnjtrb3Bs4D4MkydDfV-2FNU2OsPA-2Bai9CnklpcpoR9Eb-2F-2FM44-3D)

**The running and maintenance of-10p.pdf (0.22MB)**  
[http://www.filefactory.com/file/5080mflehfil/n/The\_running\_and\_maintenance\_of-10p.pdf](http://grid.filefactory.com/wf/click?upn=8tIX75zmv4pcsn9X2kg5JPXYkvZKM0XicLE0Xe5UtbwCLiiKj757lDDdo84rBo0sBZ5U6mmq36bOjbbk8RYv-2FPIFiIOmlm4rPHtF0X95gTLbJ2Sv1fjLydBA9tL2dUZD_v7TcKo3CcnPCP8zlK8SZehnLGxiqxn5RsshmUhilv-2FoM5nhMePvohlsNPlPaRGUMVTSfB6P96KH8lGnaSdZcNq4kT1sQqOTHsrWjNlUSCtHBGbOAcEY4htWRzLpW6HBzElVPOpb9GBMzEtFb8nk-2BIU7nnkQAgs1mKFcKCzlLt4PU5aOo71DSUy1OS9sBhiMMYh-2FqgukP6oHV0nrsQV92HxpvShHJ03F1VBlpVQMxCEg-3D)

**Session 8 Cable Selection**

**525A Session 8.pdf (4.54MB)**  
[http://www.filefactory.com/file/3gv2lpmui9hr/n/525A\_Session\_8.pdf](http://grid.filefactory.com/wf/click?upn=8tIX75zmv4pcsn9X2kg5JPXYkvZKM0XicLE0Xe5UtbzOZsvEf-2BeY-2BIn4CHxaAhNOOsp2MLUUphG9zm4AgyXdPJ441gau9nf-2FtrayCDvRhbE-3D_v7TcKo3CcnPCP8zlK8SZehnLGxiqxn5RsshmUhilv-2FqF4qa2Ha1vnpEbfIc1vpxsvHhyiFzf27Wxl9aK7yvcCNb9Ga5Ll4JxViy20xRBqYTn7ZE-2FHgKVXsK0eok6YWUiIupC8zl5Pbr8ogR3ZMtSIK9ueOYQdSauWWtYMvJFQzgPVeJZjzZo7HwAM7WUZSB59O6DTs5qhS-2B3f3i7BL8euzwIUDZmtPaS37B6BQiBZ-2Fg-3D)