

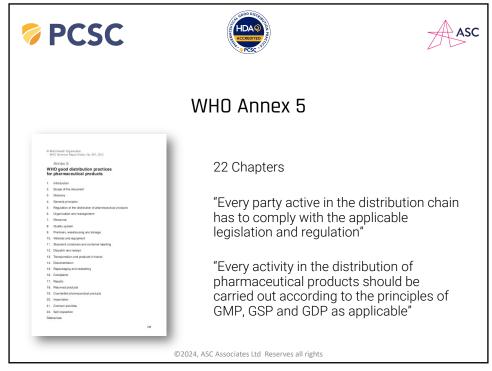


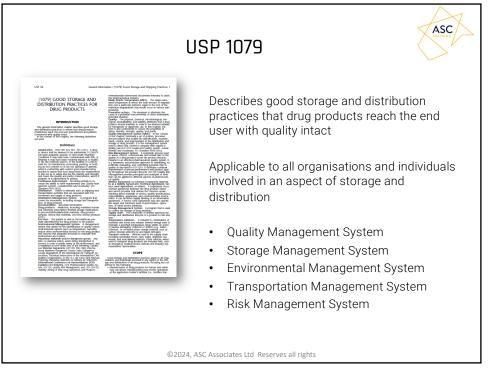
| PCSC | | ASC |
|-----------------------|--|-----|
| | Global Guidelines | |
| Region | Regulations | |
| EU | EU Guidelines on Good Distribution Practice of Medicinal Products for Human Use 2013/c 343/01- Adopted by the EU Sept 2013 | |
| PIC/S | Pharmaceutical Inspection Co-operation Scheme - Guide to Good Distribution Practice for Medicinal Products | |
| Americas | DSCSA – Drug Supply Chain Security Act | |
| Rest of world Asia | WHO's "Good distribution practices for pharmaceutical products" and "Guide to storage practices for pharmaceuticals". Annex 5 | |
| | ©2024, ASC Associates Ltd Reserves all rights | |

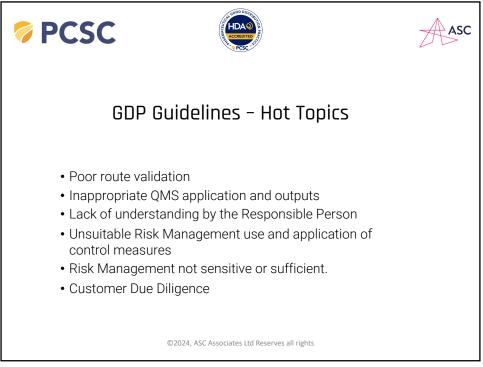


PCSC ASC EU Good Distribution Practice ROM EUROPEAN UNION INSTITUTIONS, BODIES, AND AGENCIES EUROPEAN COMMISSION **Revised Guidelines of** 24 November 2013 on Good Distribution Practice of Medicinal Products for norage Human Use ke identified in subchapters net. It also gives more exploebution of mailting position is an in imageneed supply durin management, manuals for mailting modern in of the European Parliament and of the er 2001 on the Community code relating to human use, O(1,1311, 2011,2001, p. 47. Institution Practice of medicing landscap for (OJ C 343/1, 23.11.13) C 48, 81.2013, p. 1. pean forfament and of the for a reports the prevention the defi-cluss of folgibal madazed whether ©2024, ASC Associates Ltd Reserves all rights

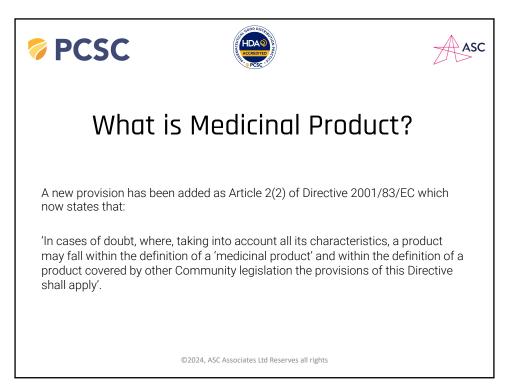
| PCSC | | ASC |
|--|---|-------------|
| | Pharmaceutical Inspection o-operation Scheme | on |
| PRINCIPAL AND CONTRACTOR AND CONTRACTOR OF THE AND CONTRACTOR OF THE ADDRESS OF T | Based on the EU Guidelines on G | GDP. |
| PIC/S GUIDE TO GOOD DISTRIBUTION PRACTORE FOR MEDICINAL PRODUCTS | Standards apply to medicines products intended for human Guidelines also applicable for Investigational Medicinal Pro | n use. r |
| Sala POS hannan and <mark>Balandan ang Postanan ang Postanan</mark> | Contains 9 Chapters | |
| | ©2024, ASC Associates Ltd Reserves all rights | |

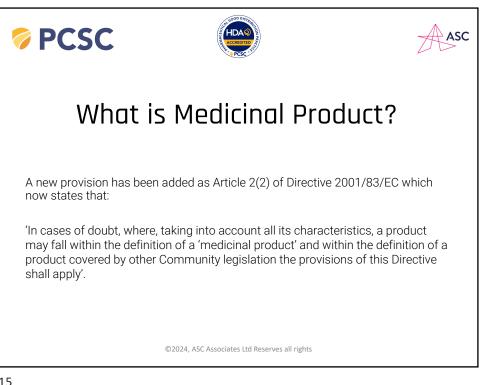










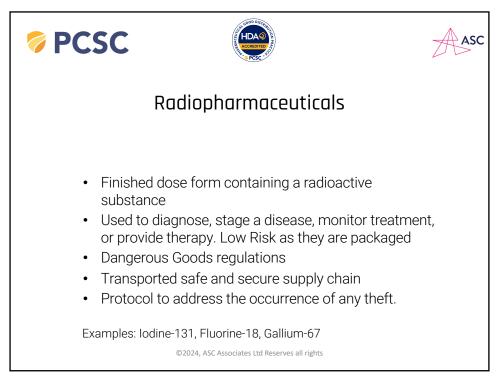


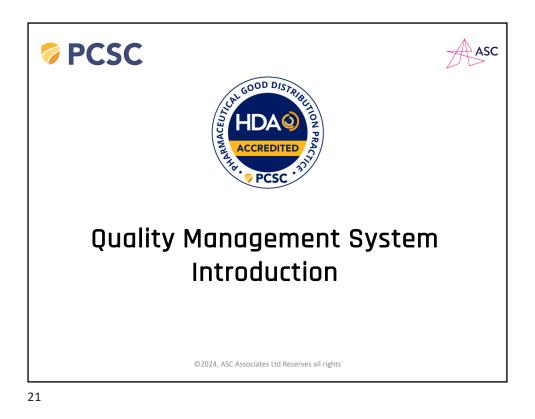






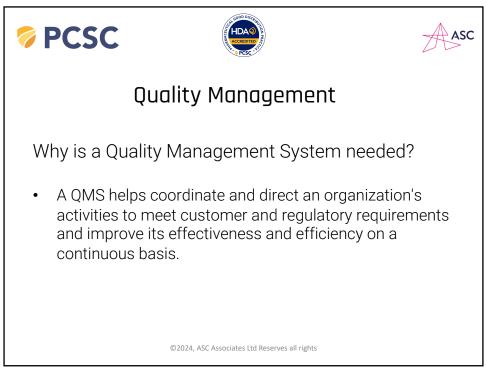










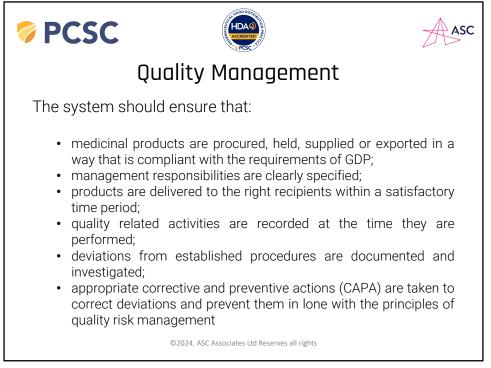


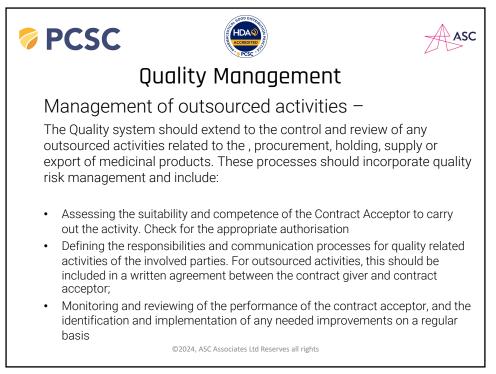


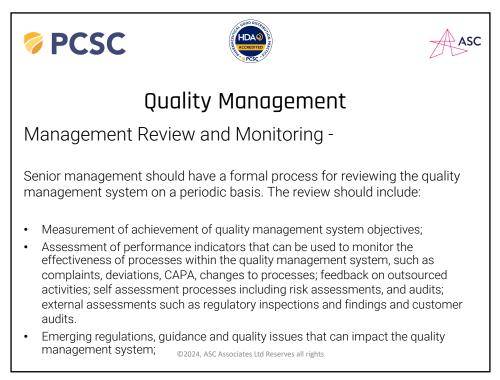






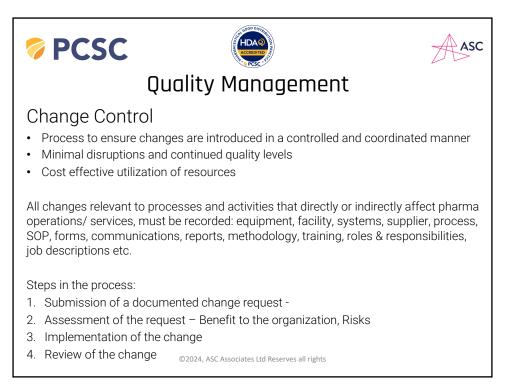






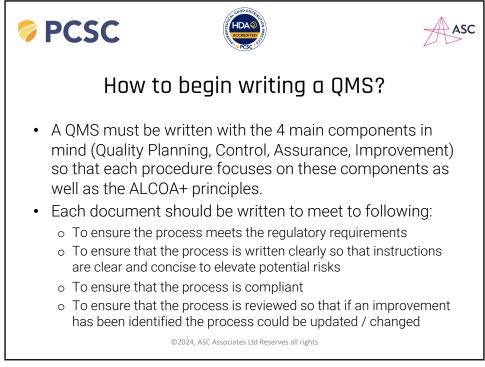


PCSC ASC Quality Management Quality Risk Management Quality risk management is a systematic process for the assessment, control, communication and review of risks to the quality of medicinal products. It can be applied both proactively and retrospectively. Quality risk management should ensure that the evaluation of the risk to quality is based on scientific knowledge, experience with the process and ultimately links to the protection of the patient. The level of effort, formality and documentation of the process should be commensurate with the level of risk. Examples of the processes and applications of quality risk management can be found inter alia in the EU Guidelines to Good Manufacturing Practice or publications of the International Conference on Harmonisation of Technical Requirements for Registration of Pharmaceuticals for Human Use ('ICH'). ©2024, ASC Associates Ltd Reserves all rights



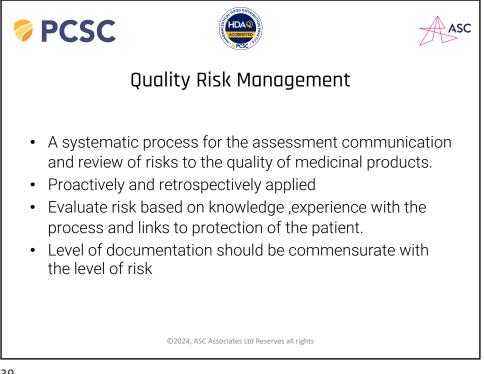






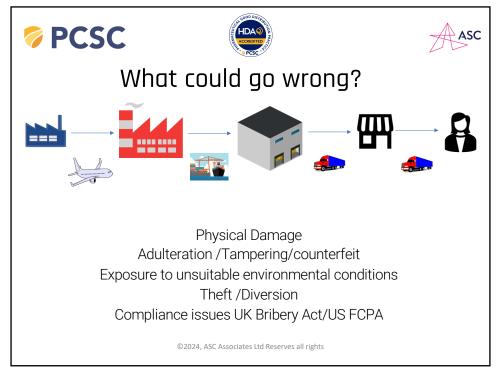






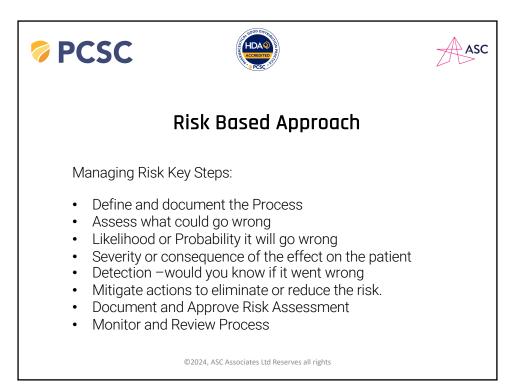










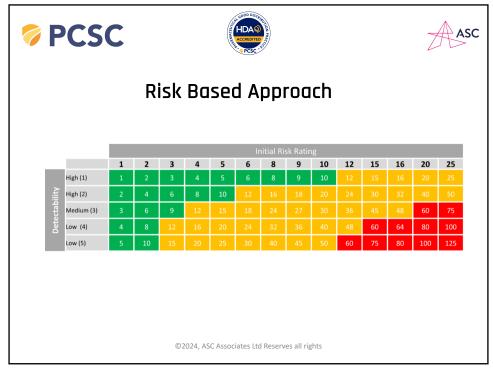


| PCSC | | ASC | | | | |
|---------------------|---|-------|--|--|--|--|
| | Risk Based Approach | | | | | |
| Assess the Risk: | | | | | | |
| Establish Likeihood | Rating | | | | | |
| Likelihood | Meaning | Value | | | | |
| Rare | May occur only in exceptional circumstances (occurrence <1 n 1000) | 1 | | | | |
| Unlikely | could occur at some time (occurrence <1 in 100) | 2 | | | | |
| Possible | might occur at some time (occurrence <1 in 10) | 3 | | | | |
| Likely | Will probably occur in most circumstances (occurrence <1 in 4) | 4 | | | | |
| Almost Certain | Is expected to occur in most circumstances (occurrence <1 in 2) | 5 | | | | |
| | ©2024, ASC Associates Ltd Reserves all rights | | | | | |

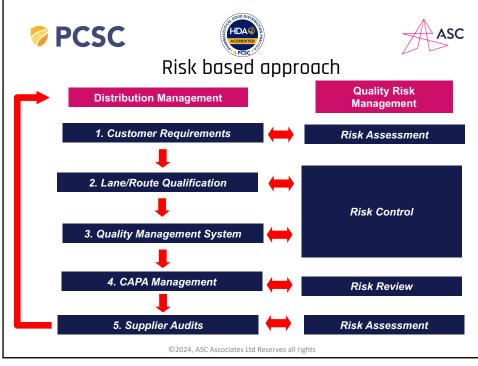
| PCSC | Risk Based Approach | ASC | | | |
|---|--|-------|--|--|--|
| Assess the Ris | • • | | | | |
| Establish Seve | rity Rating | | | | |
| Severity | Meaning | Value | | | |
| Insignificant | No impact on quality and/or efficacy of pharmaceutical product or internal quality system | 1 | | | |
| Minor | Low-medium impact on quality and/or efficacy of pharmaceutical product or internal quality system | 2 | | | |
| Moderate | High impact on quality and/or efficacy of pharmaceutical product or internal quality system | 3 | | | |
| Major | Very high impact on quality and/or efficacy of pharmaceutical product or internal quality system | 4 | | | |
| Catastrophic | Serious impact on organisations activities as a result of a critical competent authority observations, due to product safety and quality being compromised | 5 | | | |
| ©2024, ASC Associates Ltd Reserves all rights | | | | | |

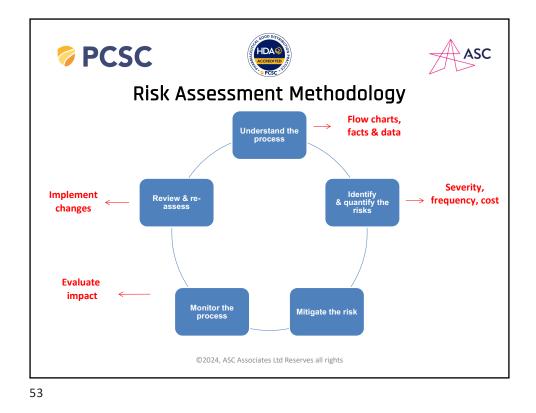
| PCSC | Risk Based Approach | ASC | | | |
|---|--|-------|--|--|--|
| Assess the Ris | | | | | |
| Establish Dete | ction Rating | | | | |
| Detection | Meaning | Value | | | |
| Very High | Control Method will almost certainly detect the existence of the problem | 1 | | | |
| High | Control Method has a good chance of detecting the existence of a problem | 2 | | | |
| Moderate | Control Method may detect the existence of the problem | 3 | | | |
| Low | Control Method has a poor chance of detecting the existence of a problem | 4 | | | |
| Detection is not Possible | Control method cannot or will not detect the existence of the problem | 5 | | | |
| ©2024, ASC Associates Ltd Reserves all rights | | | | | |

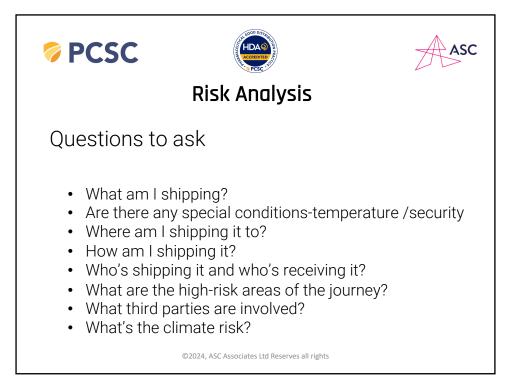
| PCSC | ACCENTRY OF THE PERSON OF THE | | | | | ASC |
|--|---|---|---|---|---|---|
| Risk Bo | ised | Appr | oach | | | |
| | | | | Consequence | | |
| | Likelihood | Insignificant | Minor | Moderate | Major | Critical |
| | Rare | LOW Accept the risk Routine management | LOW Accept the risk Routine management | LOW Accept the risk Routine management | MEDIUM Specific responsibility and treatment | HIGH Quarterly senior management review |
| Assess the Risk: Prioritisation Matrix | Unlikely | LOW Accept the risk Routine management | LOW Accept the risk Routine management | MEDIUM Specific responsibility and treatment | MEDIUM Specific responsibility and treatment | HIGH Quarterly senior management review |
| Calculate the RPN | Possible | LOW Accept the risk Routine management | MEDIUM Specific responsibility and treatment | MEDIUM Specific responsibility and treatment | HIGH Quartely senior management review | HIGH Quarterly senior management review |
| – Risk Prioritisation Number | Likely | MEDIUM Specific responsibility and treatment | MEDIUM Specific responsibility and treatment | HIGH Quarterly senior management review | HIGH Quarterly senior management review | EXTREME Monthly senior management review |
| Probability multiplied by Severity (PxSxD) | Almost certain | MEDIUM Specific responsibility and treatment | MEDIUM Specific responsibility and treatment | HIGH Quarterly senior management review | EXTREME Monthly senior management review | EXTREME Monthly senior management review |
| ©2024, A | SC Associat | es Ltd Reserves | all rights | | | |

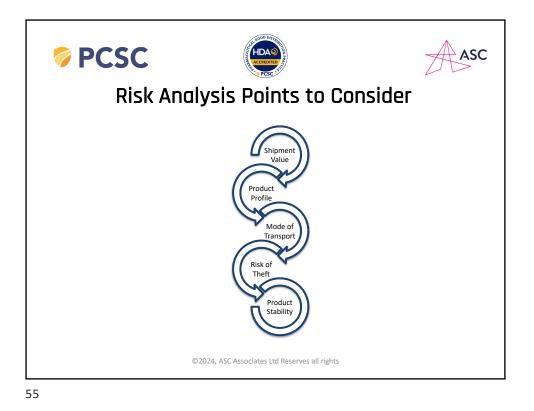


| PCSC | | | | AS | C | | | |
|--|-------------------------|--|----------------------------------|------------------------------------|-------------------|------------------------|-------------------|--|
| | | Risk Bo | ised A | pproc | ich | | | |
| Function or Process Step | Potential Causes | Р | Potential Impact | S | Detection Mode | D | RPN= P × S × D | |
| Briefly outline function, step or item being analyzed | What could go wrong? | How frequently is this likely to occur? | the output or the customer | severe is the effect (to the | | the control measure in | | |
| | | ©2024, ASC # | Associates Ltd R | eserves all righ | op | etection par tional | t is } | |







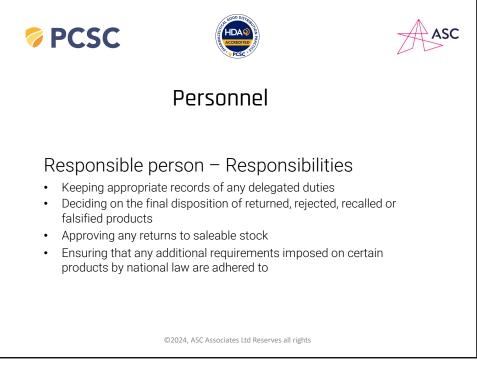


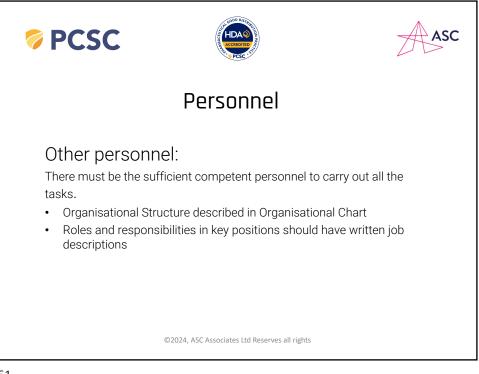
| | - | Astions Doad Transport |
|---------------------------------|-----------------|---|
| I ∨II Area | uyuun | g Actions Road Transport |
| Pre-business Audits | | Undergo and pass audits regarding Security and Quality Contracts in place/SLA/QA/TA |
| Vehicles | - Como | Solid sided /sealing locks /panic alarm/GPS tracking /Geofencing/TCV/Temperature mapping of vehicles |
| Drivers | | Double manned /Photo ID's/Full time/ Trained on Security /GDP have training matrix and records/background checked |
| Routes | 逐 | Risked Assessed and documented |
| Warehouses | E astern | GDP compliant |
| SOP's | | Quality Management System |
| Contingency Incident Process | t & Escalation | Secure parking policy Security Intelligence/Awareness |
| | | ©2024, ASC Associates Ltd Reserves all rights |

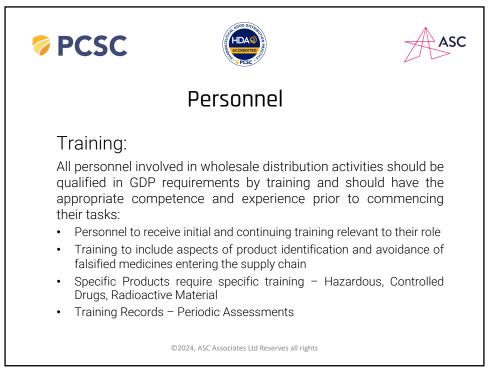


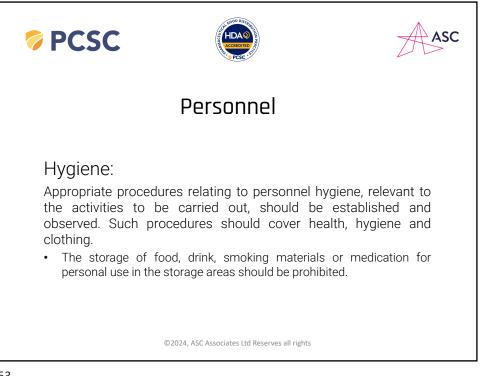


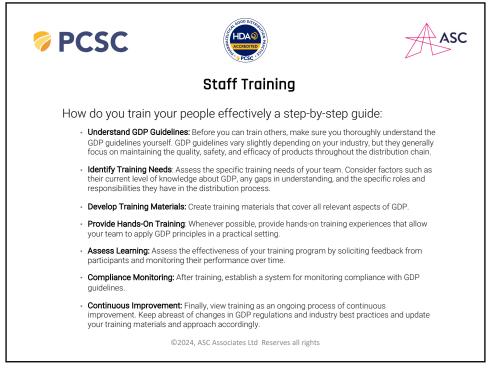


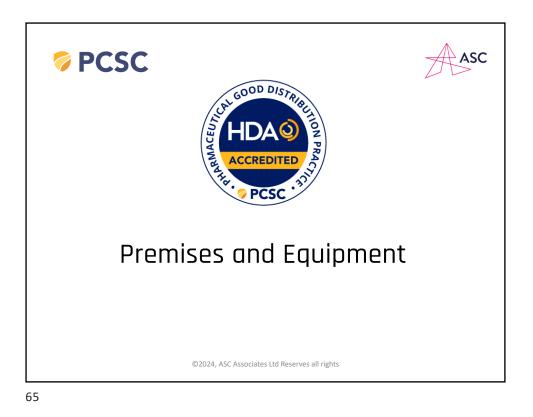


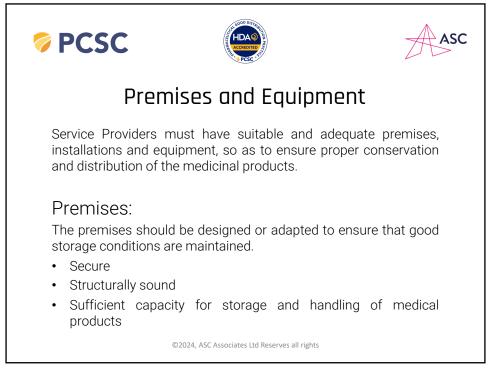










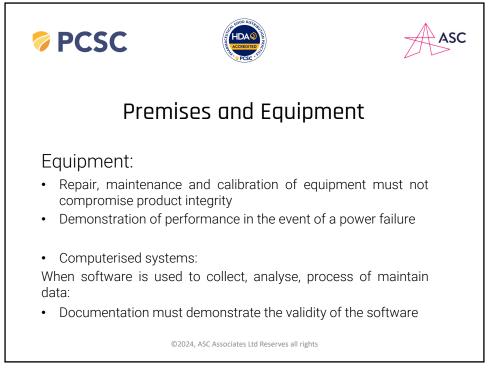


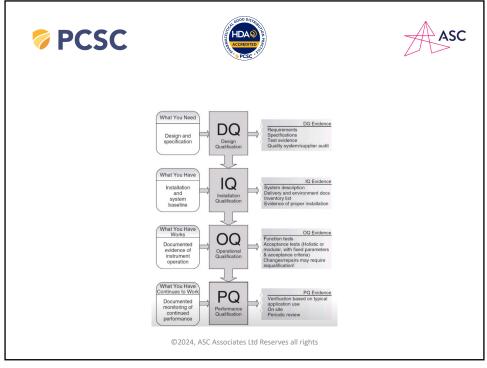


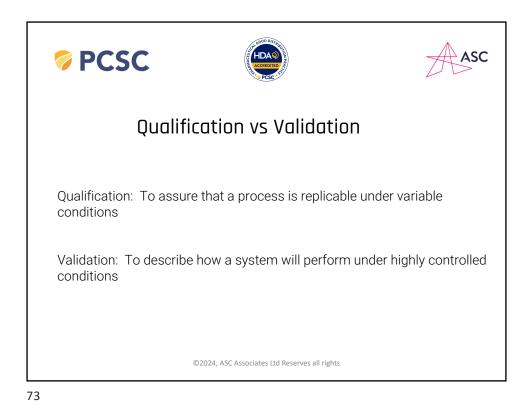




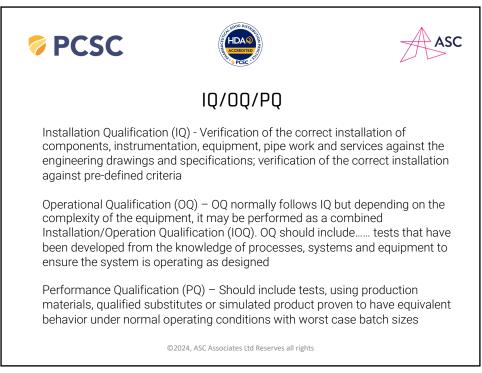




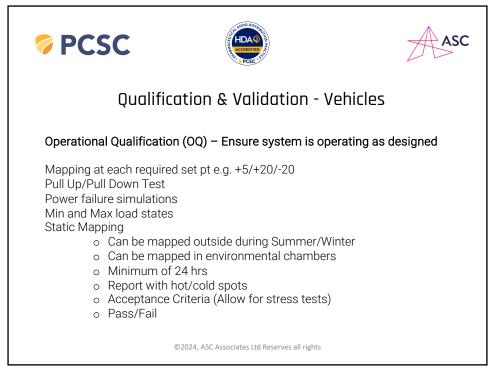


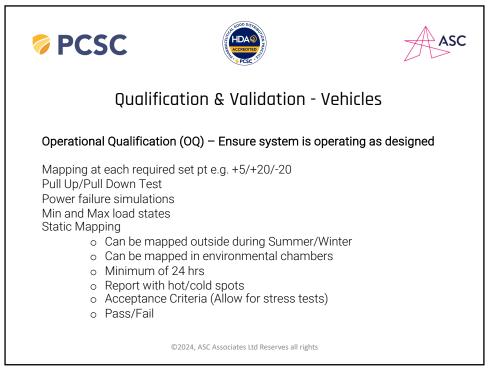


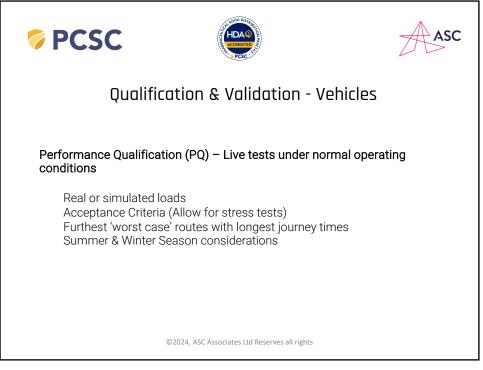


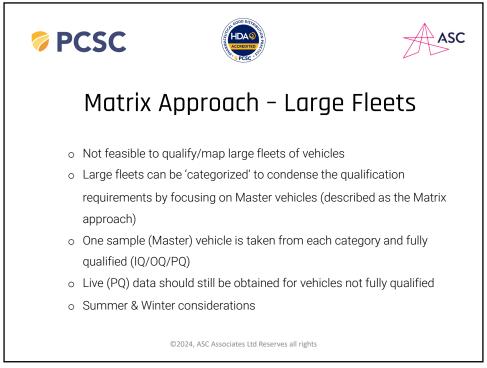






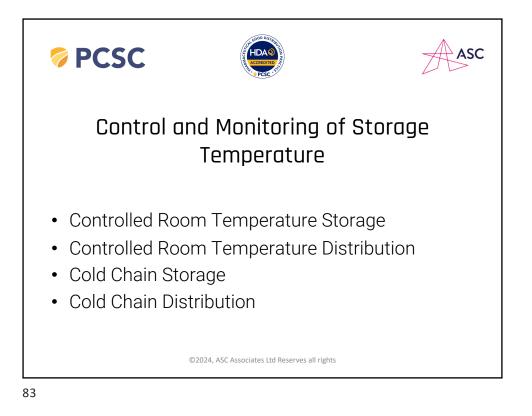


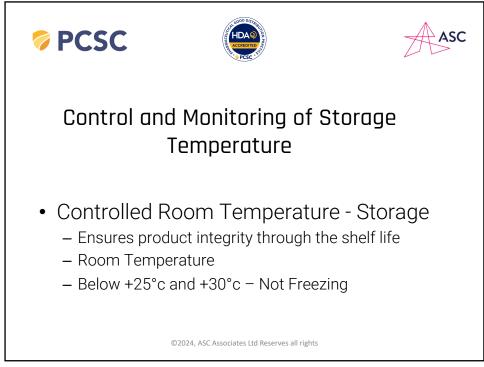


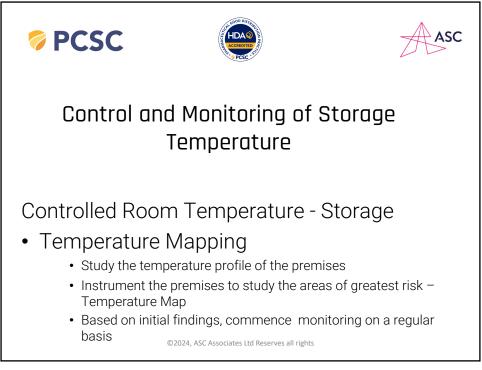


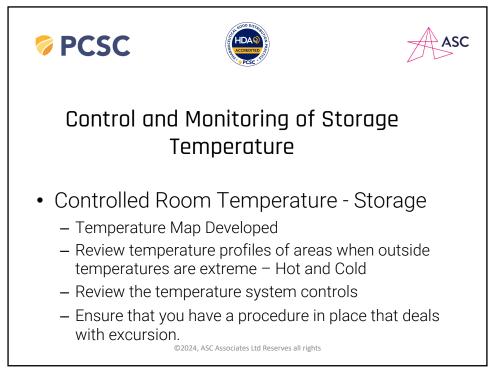
| PCSC | | ASC |
|---|--|-----------|
| Matrix A | PProach – Lar Category Groups | ge Fleets |
| o Age o Size o Contro o Air chu o Bulkhea | ′vehicle manufacturei I Unit Make/Model te design ad type Dual Chamber | r |
| ¢ | ∂2024, ASC Associates Ltd Reserves all rights | |

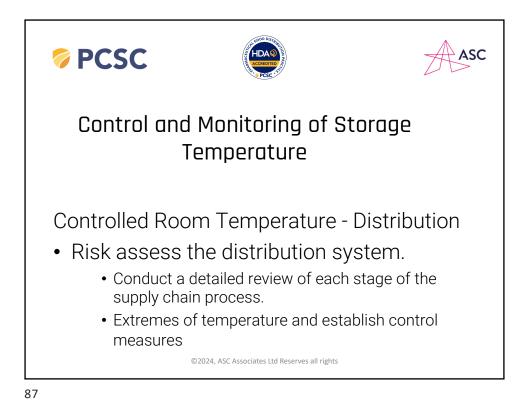


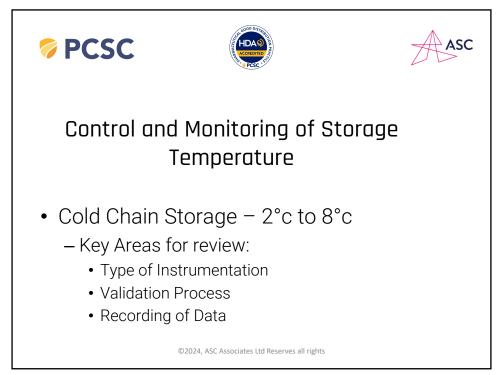


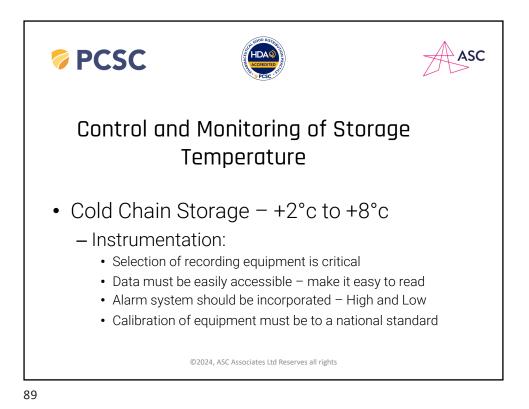


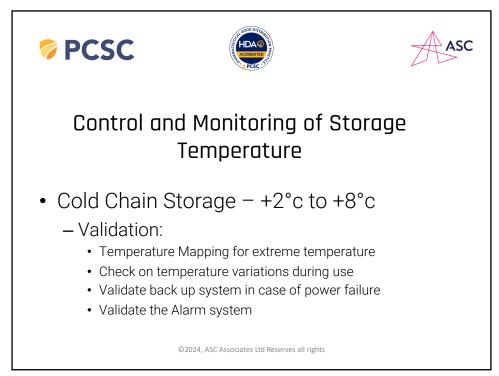


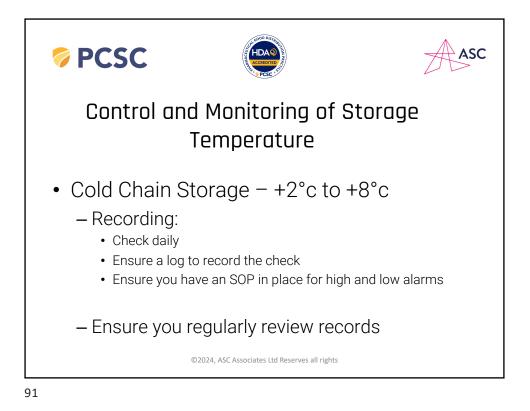


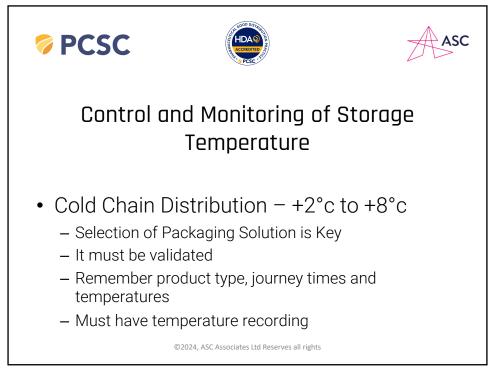


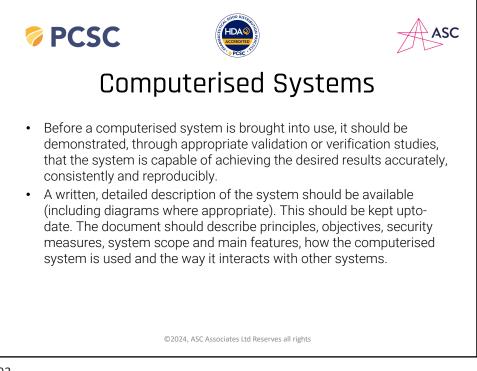


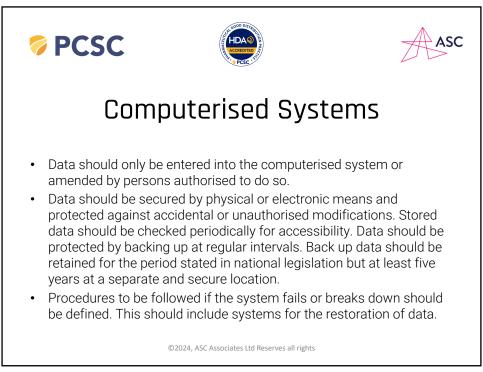




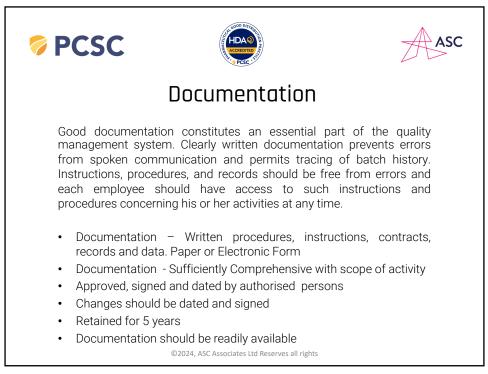


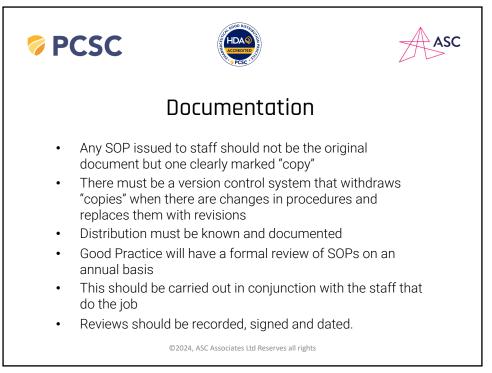






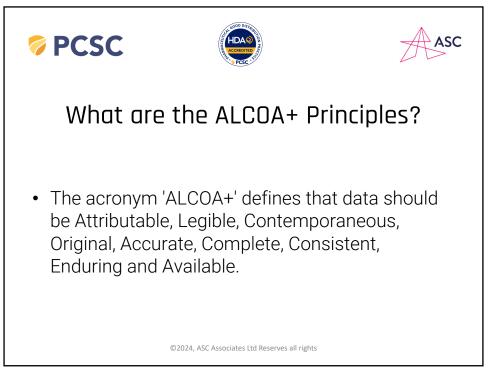


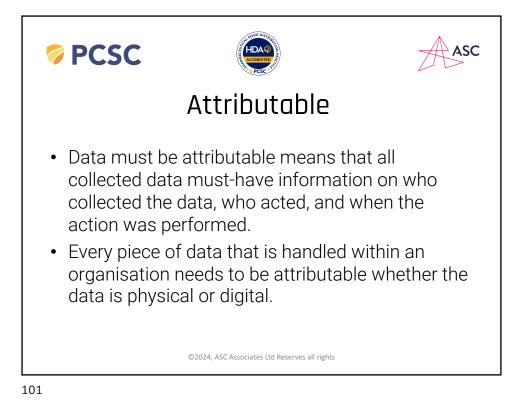


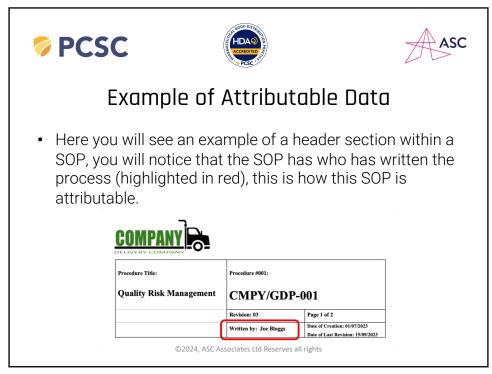


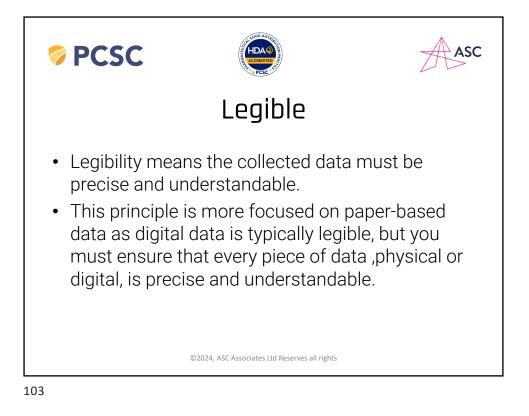


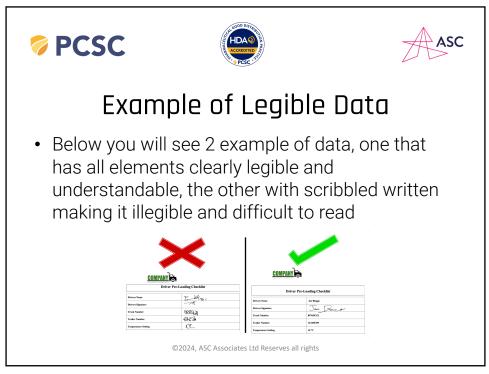


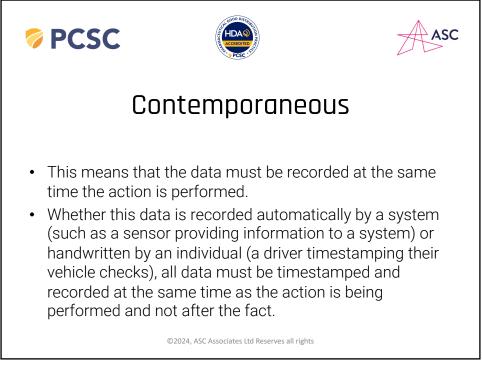


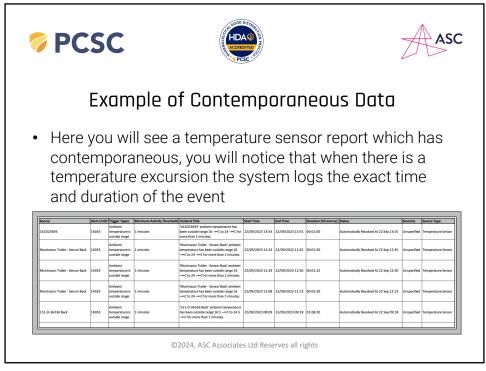


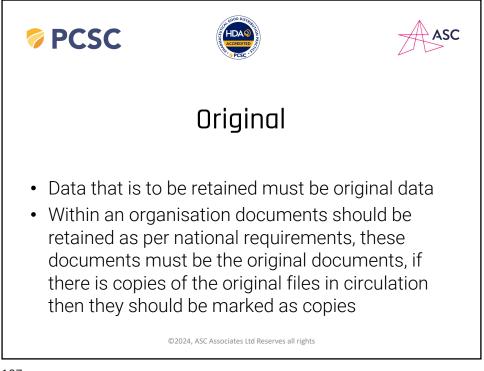


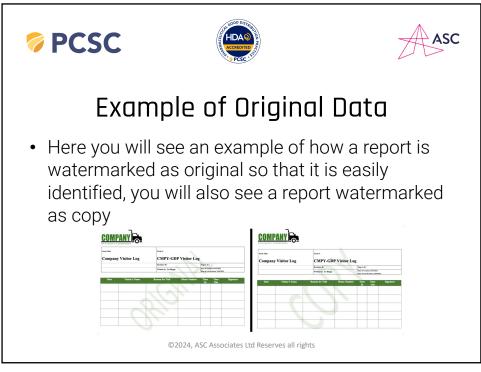


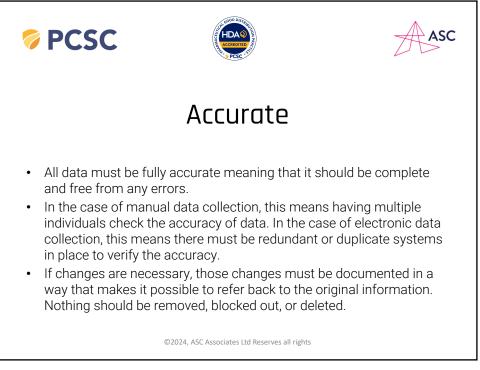


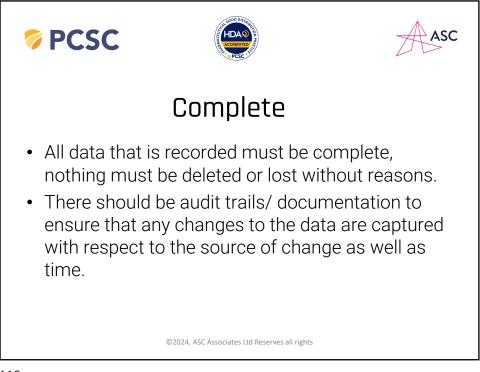


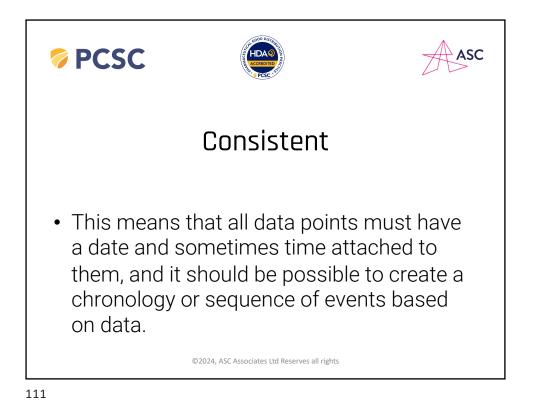


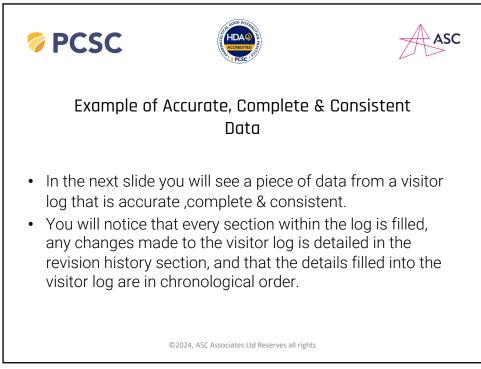




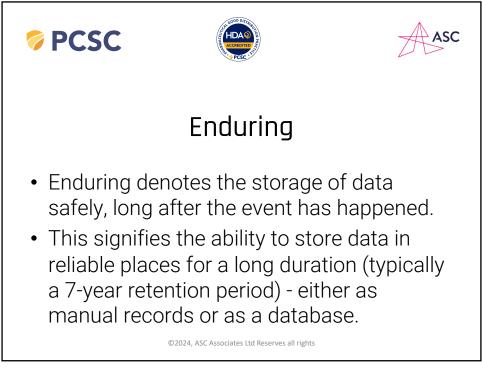


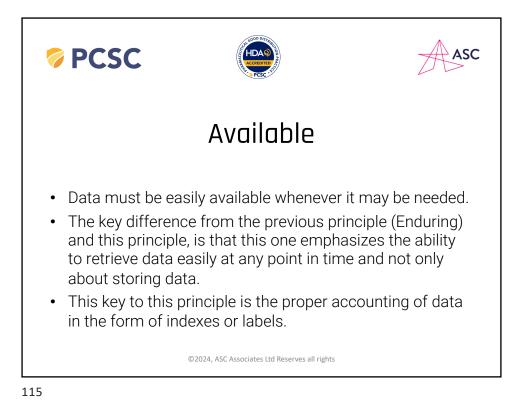


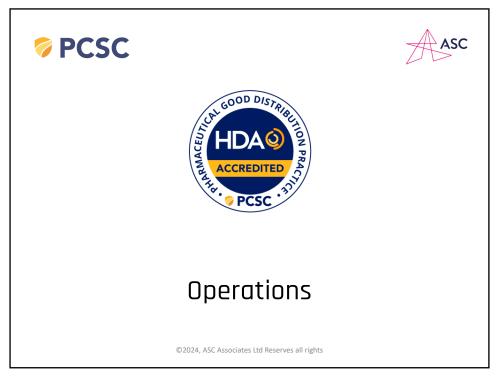




| PCSC | | | | | | | ASC | | | | | |
|-------------|----------------|--------------------------------------|--------------|--|--------------|--------------|---|-----------------------------------|--|---------|--------|------|
| | | Fxar | nnle | - nf ∆ | ררוויי | ite .C | :omr | olete | ¢ | | | |
| | | Endi | npr | Cons | | | | | ~ | | | |
| | | | | CUIE | ISCEI | ιι υι | าเน | | | | | |
| | _ | | | | | | _ | | | | | |
| <u>om</u> | PANY 🕞 | 1 | | | | | | l | | | | |
| n Title: | | Form #: | | | | 02/08/2023 | Dwight Schrute | Vehicle Maintenance | 0851234567 | 09.00 | 12.19 | Tak |
| ompar | ny Visitor Log | CMPY-G | DP Visitor L | og | | 27/08/2023 | Michael Scott | Delivery of Printer Paper | 0877564312 | 09.10 | 09.15 | _MS |
| | | Revision: 02 Written by: Jim Halp | eri | Page 1 of 1 Date of Creatine: 93/972023 Date of Last Revision: 15/952023 | | 17/09/2023 | Pam Beesly | Collection of Goods | 0867654321 | 16.45 | 17.02 | Part |
| Date | Visitor's Name | Reason for Visit | Phone Numbe | | Signature | 27/09/2023 | Michael Scott | Delivery of Printer Paper | 0877564312 | 09.30 | 09.42 | |
| 15/2023 | | Vehicle Maintenance | 0851234567 | 09.01 15.29 T | 26 | | | | | | | |
| | Dwight Schrute | | | | marc. | Rev | Change | REVISION H Approved By | ISTORY Job Title | Date A | proved | |
| 05/2023 | Michael Scott | Delivery of Printer Paper | 0877564312 | 09.30 09.45 | MIS | 00 01 | Document creation Added Telephone Number | Jim Halpert Column Jim Halpert | Responsible Person Responsible Person | 01/07/2 | 023 | |
| 06/2023 | Pam Beesly | Collection of Goods | 0867654321 | 13.12 13.14 | amb | | Added Signature Column | Jim Halpert | Responsible Persor | 15/09/2 | 123 | |
| 6/2023 | Michael Scott | Delivery of Printer Paper | 0877564312 | 09.15 09.30 - | MS | | | | | | | |
| 18/2023 | Dwight Schrute | Vehicle Maintenance | 0851234567 | 08.57 15.45 | To fer | | | | | | | |
| | | | | | | | | | | | | |
| | | | | | | - | | | | | | |
| | | | | | | | | | | | | |
| | | | | ©2024, A | SC Associate | s Ltd Reserv | es all rights | | | | | |
| | | | | | | | | | | | | |

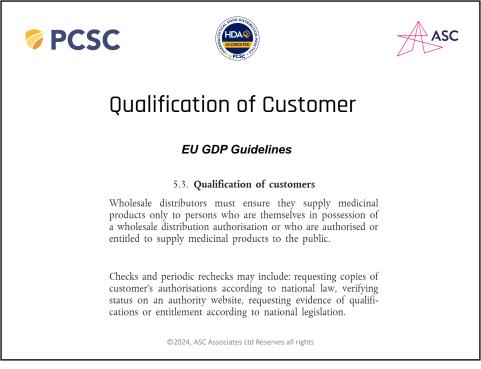


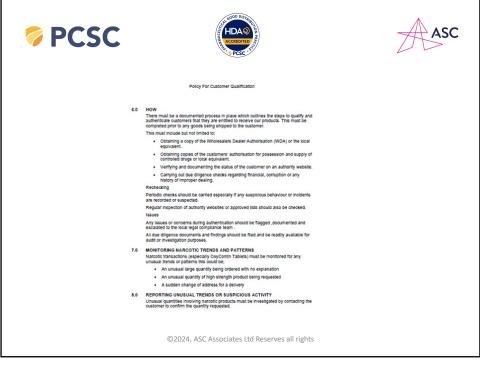


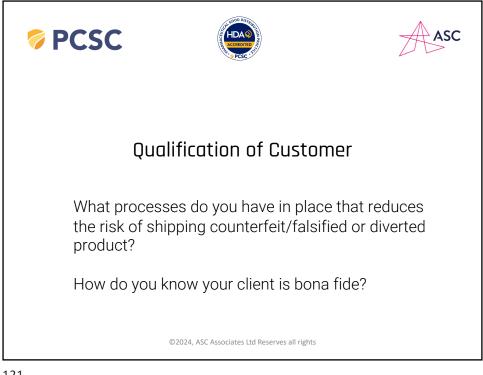


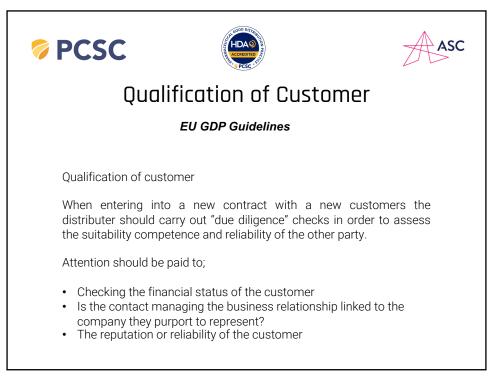


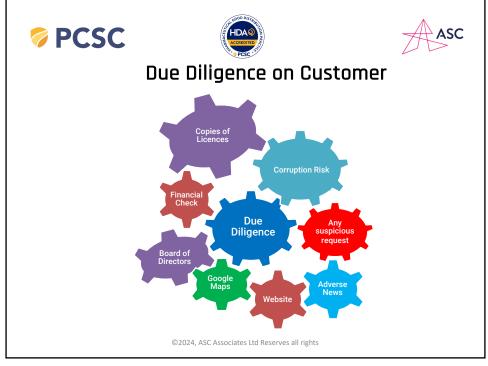


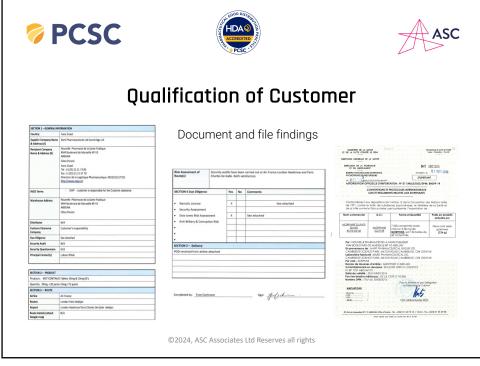








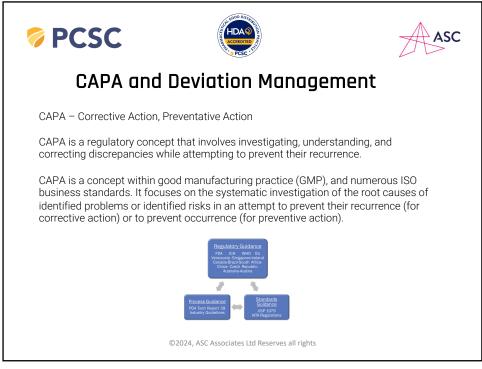


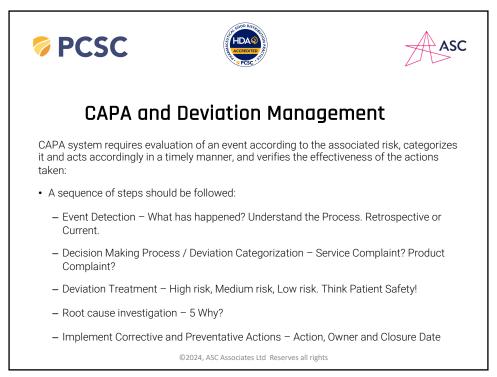


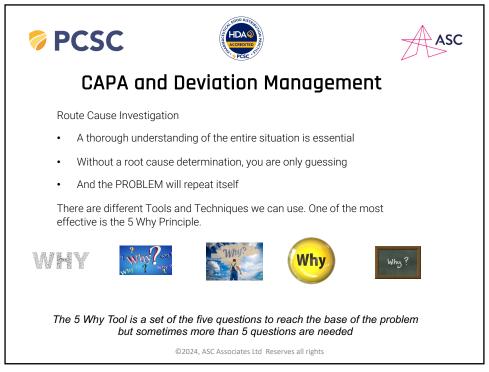






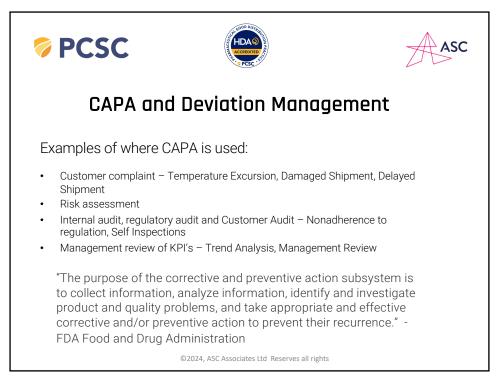






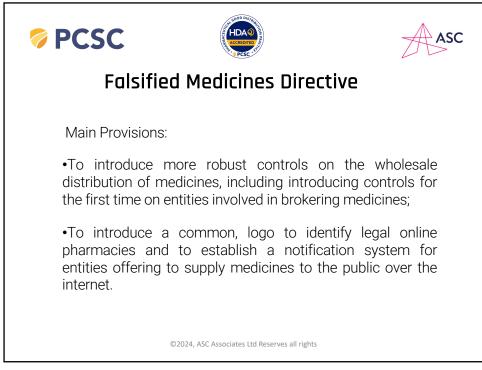
| PCSC | | ASC | | | | | | |
|-------------------------------|--|---------------------|--|--|--|--|--|--|
| CAPA and Deviation Management | | | | | | | | |
| Other Tools and t | echniques for conducting r | oot cause analysis: | | | | | | |
| PARETO PRINCIPLE | PSHONE DIAGRAM | | | | | | | |
| Pareto Chart | Fishbone Diagram | Scatter Plot | | | | | | |
| | FMEA Process International Procession International Procession Internat | | | | | | | |
| Failu | re Mode Effect Analysis | | | | | | | |
| | ©2024, ASC Associates Ltd Reserves all rig | hts | | | | | | |

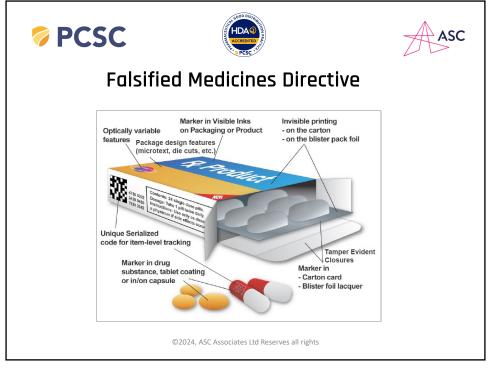
| TO BE COMPLETED BY QUALT DR NUMBER: NCR- | DEVIATION OWNER: | |] | Rated As: High Impact | | Impact | Low Impact |
|--|-------------------------------|--|------------------|--|---------------------------------|---------------------|--|
| DATE OF INCIDENT: INCIDENT CLASSIFICATION: DATE REPORTED TO: REPORTED BY: | Choose an item. | | | to be completed by De | | | |
| COMPLAINT REF: JOB | ISTOMER AWB REF: 3/DN REF: | JOB REF: | INCOTERMS: | ACTI | DN | ACTION OWNER | TARGET ACTION CLOS DATE (dd/mmm/gy) |
| Temp Requiremen +2 th C to +8 th C +15 th C to +25 th C 0 CARRIER & PRODUCT: | ther: Active – type: | Thermal Packaging: Passive box – type: B TAL #PLTS/CTNS: #PLTS | Blankets – type: | CONTRIBUTORY to be completed by De | | AUSE IDENTIFICATION | |
| 2. BRIEF DESCRIPTION C | | TAL OPETS/CINS: OPETS | JCINS AFFECTED: | 8. PREVENTATIVE J to be completed by De ACTIN | viation Owner | ACTION OWNER | TARGET ACTION CLO |
| N.B. F DEVIATION RELATES TO REAL OR AND/OR COMPETENT AUTHORITY MUST | | JTICAL PRODUCT ADVERSE EVENT | T THE CUSTOMER | | oth/detail of investigation can | | DATE (dd/mmm/g |
| | | | | Function Head: | Respons | ible Person: | Complaint Owner: |







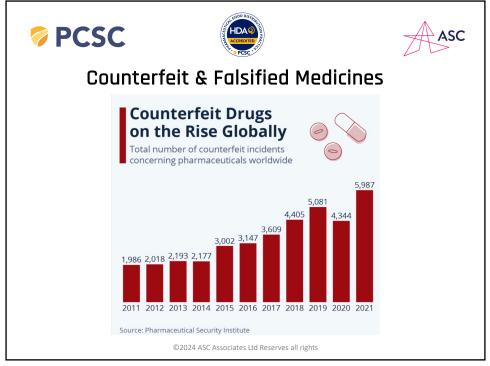














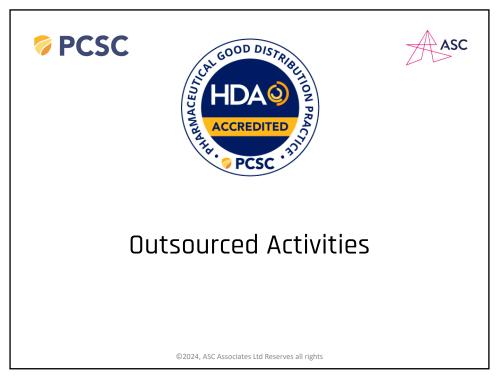




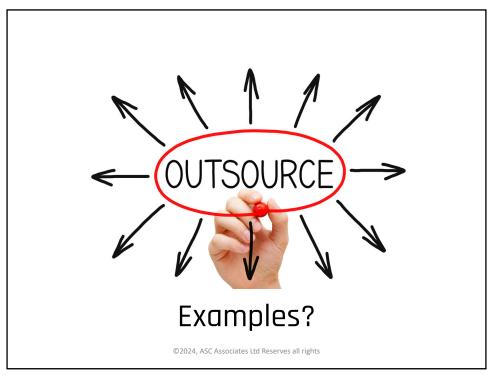


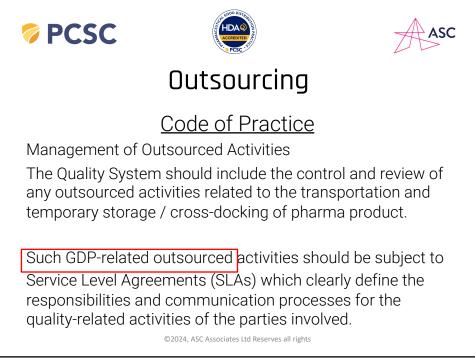


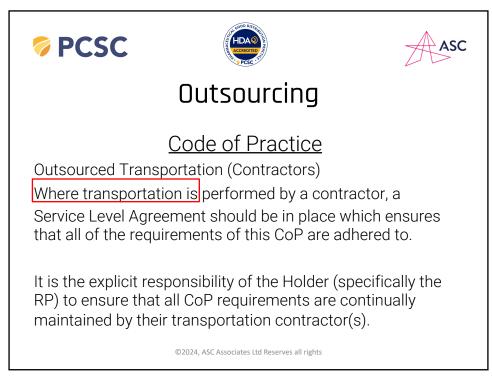












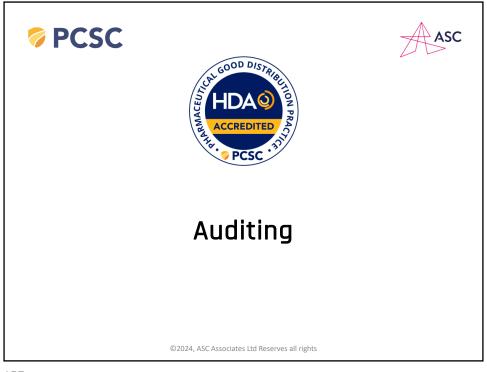


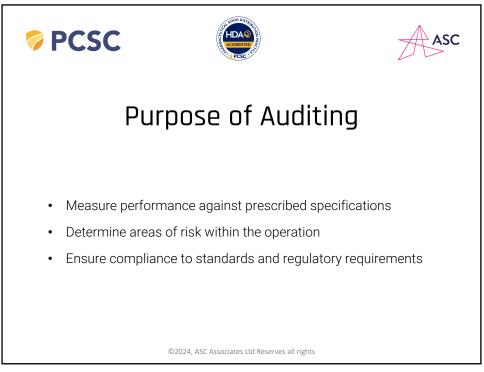


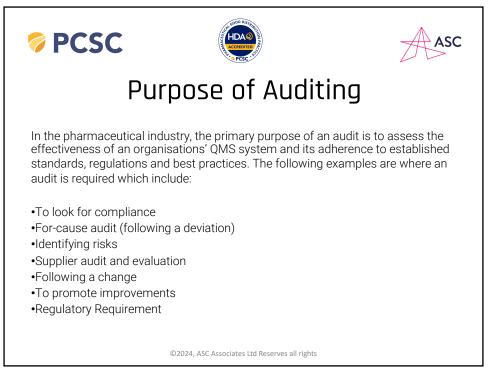


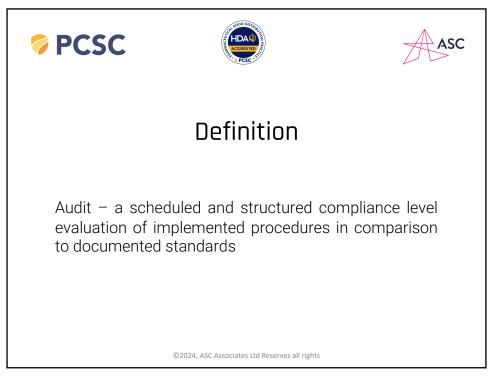


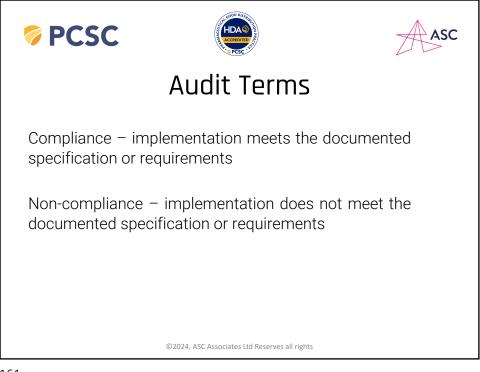


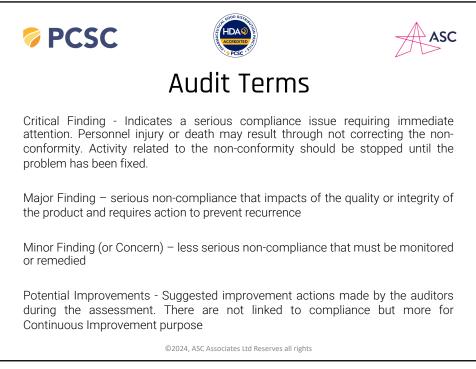


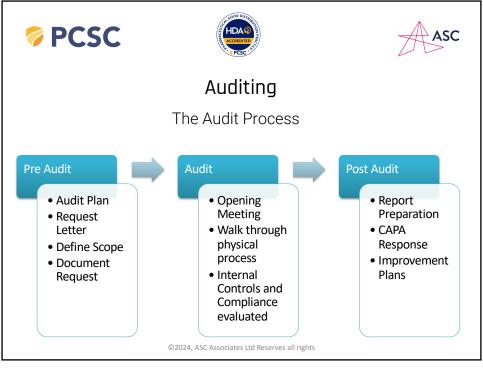


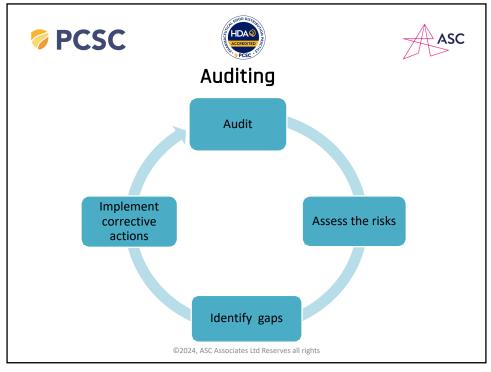


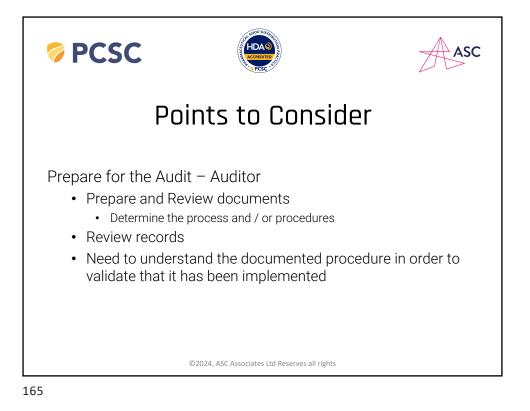




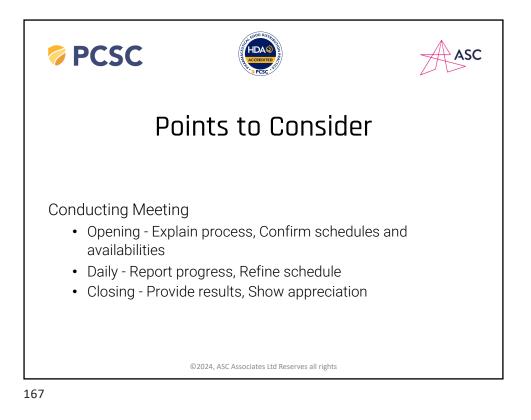


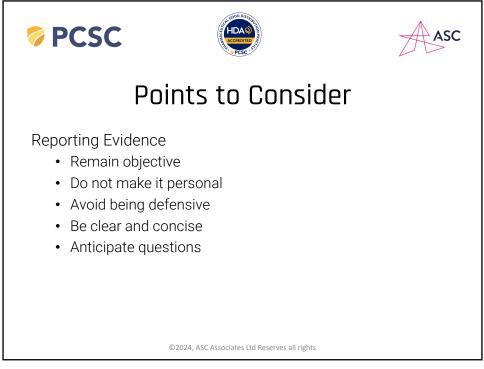


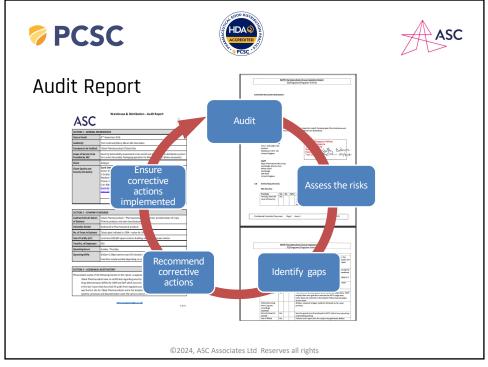


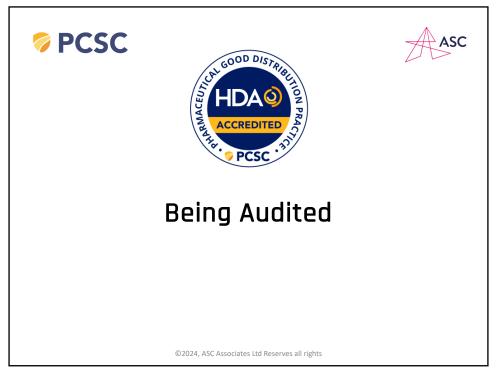


<image><image><image><section-header><section-header><section-header><section-header><section-header>

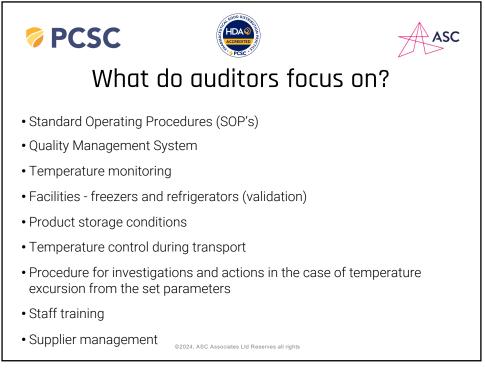


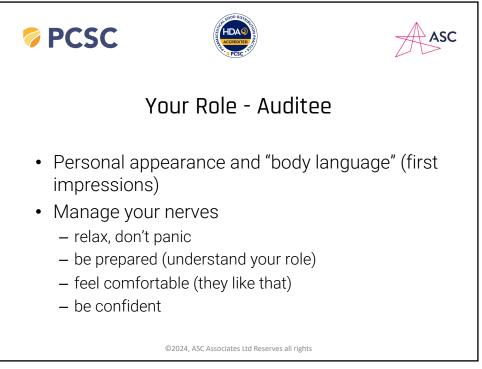


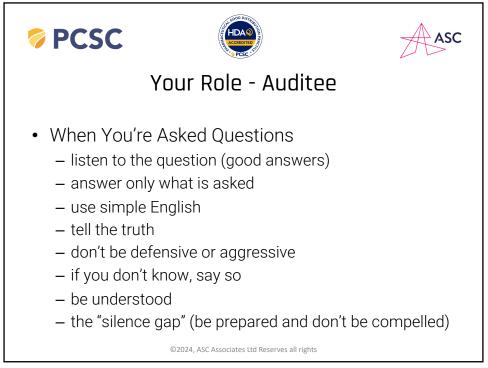


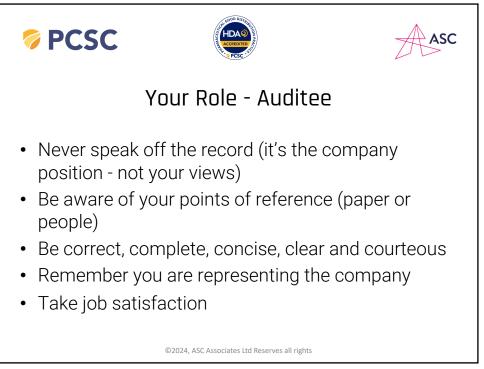


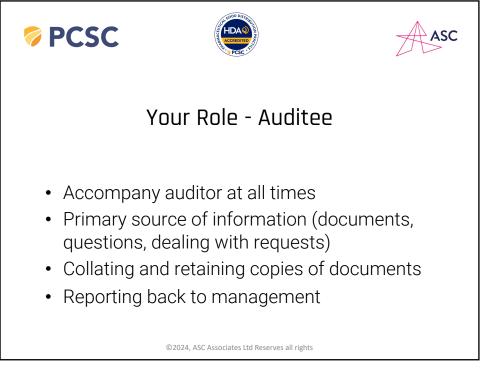


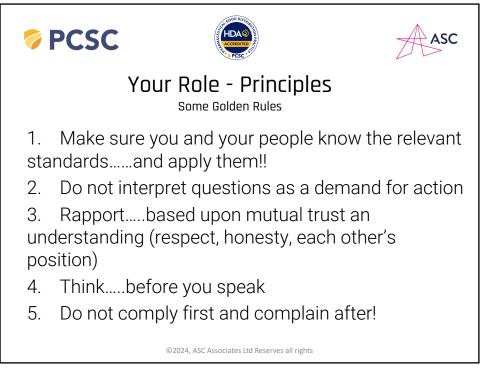




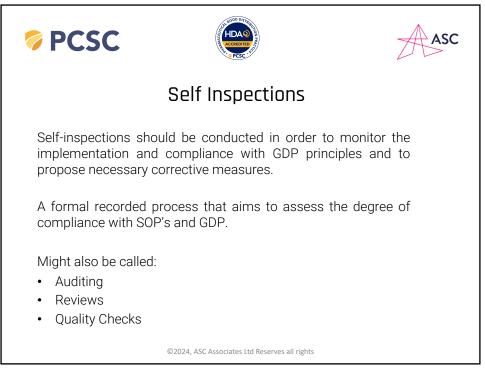


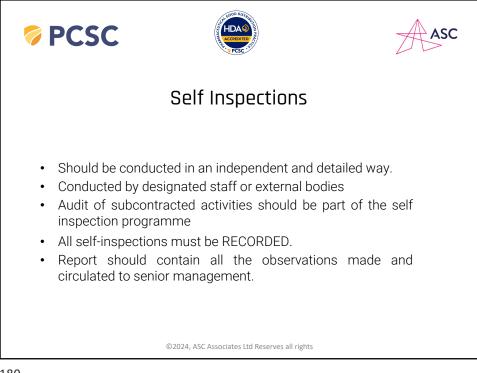


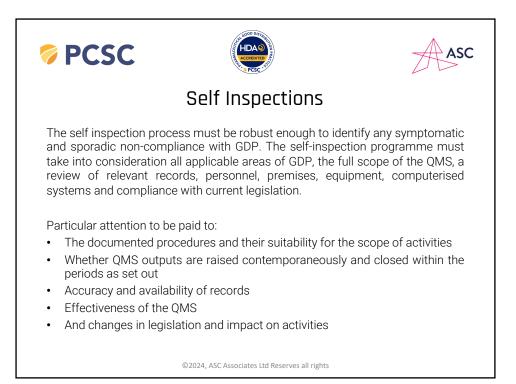


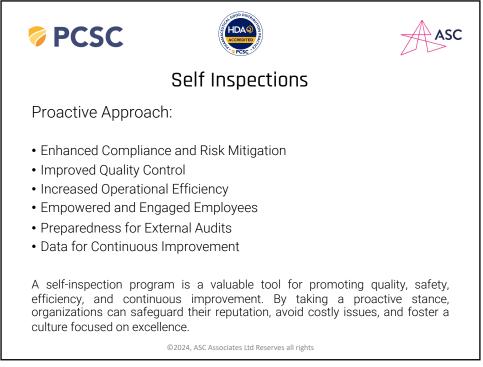












| Area | | | | S | Se | lf-In | ispec | tions | | | | | |
|-----------------------------------|---|--------------|----------|----------------------|-----------------|----------------------|--------------------------|---|---------------|----------|------------|-----------------|------------|
| Area | | | | | | ••••• | | | | | | | |
| Area | | | | | | | | | | | | | |
| | Examples | Observations | Cause(s) | Corrective action | Timeline for | Corrective action | Area | Examples | Observations | Cause(s) | Corrective | Timeline for | Corrective |
| | Are the deviations log and change control log | | - | | completion | Yes | Transfer between | Was there transfer of medicinal products | | | | completion | yes |
| Quality | to date? Have records been completed for deviations. | | | | | No 🗆 | branches | between branches? Were these recorded correctly (batch nos)? | | | | | No 🗌 |
| management | change control and risk assessments? | | | | | | Waste | Check the status of products in the reject area | | | | | Yes No |
| | Have all issues been closed off? Has a management review been completed? | | | | | | management | - are these recorded in the Rejected Products Log? Can they be disposed of? | | | | | _ |
| Personnel | Booster training provided to all personnel? All training recercle correlated correctly? | | | | | Yes No | Return of | Are goods checked before return to stock? | | | | | Yes No |
| | Have contracted drivers been trained? | | | | | _ | medicinal | Review Returns Assessment Forms - are they completed correctly? | | | | | No 🗆 |
| | Have SOPs been reviewed? Any new SOPs issued in the year? | | | | | Yes D | products to inventory | Observe processing of a returned medicinal product - in accordance with SOP? | | | | | |
| Documentation | - have relevant personnel been trained on | | | | | | inventory | Check status of products in returns area. | | | | | |
| | are index/distribution/revision forms up to | | | | | | Recall procedure | Has a mock recall been performed? Was it in accordance with SOP? | | | | | Yes No |
| | date? | | | | | | Recan procedure | Are the contact details up to date? | | | | | |
| | Is the correct SOP version in use? | | | | | | Customer | Have there been any customer complaints? Were the records completed correctly? | | | | | Yes No |
| Area | Examples | Observations | Cause(s) | Corrective | Timeline | Corrective | complaints | Was a reply received from the supplier? | | | | | |
| | | | | action | completion | | | Was the complaint answered/closed out? Were there any suspected falsified products | | | | | ¥ |
| | Have all records (cleaning, temperature etc) been completed correctly and reviewed where | | | | | | Falsified | received/identified? | | | | | Yes No |
| | been completed correctly and reviewed where necessary? | | | | | | medicinal | Were there any suspicious orders/requests? Were these notified to the HPRA? | | | | | |
| | Is the information on the wholesaler's | | | | | | | Has a self-inspection been performed in the | | | | | Yes 🗌 |
| | authorisation up to date? Check the pick face for expired, damaged, | | | | | Yes | Self-inspection | last year? If not, why? | | | | | Yes No |
| | incorrect stock. Check pest control records - no. of visits up to | | | | | No 🗌 | Jan apecon | Were all corrective actions identified implemented? | | | | | |
| | Check pest control records - no. of visits up to date? | | | | | | | an part to the second | | | | | |
| | Has temperature mapping or a risk assessment of the storage area been completed? | | | | | | Area | Examples | Observations | Cause(s) | Corrective | Timeline | Corrective |
| Premises / storage | Have temperature monitoring probes been | | | | | | ~~ | | obie victoria | Cause(s) | action | for | action |
| | calibrated? Check status of products in guarantine /reject | | | | | | | If training was required as a corrective action, | | | | completion | performed? |
| | areas. | | | | | | | was this performed and recorded? | | | | | |
| | Are these recorded on the correct forms? Observe products being checked in and put | | | | | | | Was the self-inspection closed out? Is there an up-to-date list of outsourced | | | | | Yes 🗌 |
| | away - in accordance with SOPs? | | | | | | | activities? | | | | | Yes No |
| | Are there wholesaler's or manufacturer's | | | | | Yes D | Outsourced | Has there been a recent assessment of the companies? | | | | | |
| Amount | | | | | | ~~ Li | | Are all contracts up to date? | | | | | |
| Approval of suppliers | authorisations on file for all suppliers? Are all GDP/GMP certificates on file? | | | | | | | | | | 1 | | |
| | authorisations on file for all suppliers? Are all GDP/GMP certificates on file? Are these up to date? | | | | | No. | | And all debugge testinged in COM | | | | | |
| suppliers Order | authorisations on file for all suppliers? Are all GDP/GMP certificates on file? Are these up to date? Observe the picking of an order - is it in accordance with SOP? | | | | | Yes No | | Are all drivers trained in GDP? Have all transportation issues been | | | | | Yes No |
| Suppliers Order processing. | authorisations on file for all suppliers? Are all GDP/DMP certificates on file? Are these up to date? Observe the picking of an order - is it in accordance with SOP? - are the records being signed and correct | | | | | Yes No | Transportation | Have all transportation issues been investigated? | | | | | No 🗌 |
| suppliers Order | authorisations on file for all suppliers? Are all GDP/GMP certificates on file? Are these up to date? Observe the picking of an order - is it in accordance with SOP? | | | | | Yes No | Transportation | Have all transportation issues been | | | | | No 🗌 |



