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<th>No.</th>
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| 1   | Coronaviruses and the laboratory biosafety guidelines related to COVID-19 testing | • Describe Coronaviruses  
• Discuss Novel Coronaviruses  
• Describe current laboratory diagnostic tests  
• Understand Laboratory Biosafety Guidance  
• Describe preventative measures related to COVID-19 |
| 2   | Performing a Risk Assessment                                           | • Define hazard, risk and consequences  
• Understand risk assessment and risk management  
• Identify pathogen risk factors  
• Determine risk level  
• Control for mitigation  
• Complete a risk assessment focused on COVID-19 |
| 3   | Validation and Verification and why it is important                    | • Select a validation or verification, as appropriate for the new test introduction  
• Explain the value of validation and verification in laboratory quality management  
• List the steps of verification and validation  
• Calculate specificity, sensitivity, positive predictive value, negative predictive value and coefficient of variation  
• Describe the content of a verification plan and report. |
| 4   | Principles of Good Molecular Techniques and PCR Troubleshooting        | • Describe elements of laboratory design essential for quality nucleic acid amplification testing  
• Discuss best laboratory practices to prevent contamination of laboratory environment  
• Describe best practices to minimize and detect contamination of samples in an analytical run |
| 5   | Sample collection, packaging and shipping                              | • Describe types, timing and how to collect specimens for COVID-19 diagnostic testing  
• Identify the proper storage for clinical specimens  
• Determine the appropriate shipping and packaging requirements for COVID-19 specimens to the laboratory  
• Determine if a specimen is of quality to test upon receipt in the laboratory |