

Level 3 Updates

FP01 Assemble Digital Motion Picture Cameras, Lenses and Attachments

Knowledge and Understanding Requirements:

- 1.1 Identify key characteristics of relevant equipment
 - 1.2 Describe the consequences of incorrect handling of relevant equipment and materials
 - 1.3 Explain how to store relevant equipment and materials safely and securely
 - 1.4 Explain the role and responsibilities of Clapper Loaders/2nd Camera assistants in relation to assembling relevant equipment
 - 1.5 Describe how to follow manufacturers' instructions for relevant equipment
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- 2.1 Identify key aspects of relevant Health & Safety issues and procedures
 - 2.2 Identify any special requirements to ensure the safety and security of relevant equipment when unattended

Performance Requirements:

- 3.1 Liaise with appropriate personnel to address, report and resolve any technical requirements or problems in order to assemble motion picture cameras, lenses and attachments
 - 3.2 Delegate tasks when required
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- 4.1 Use techniques for testing and handling relevant equipment and materials
 - 4.2 Mount and level digital motion picture camera body
 - 4.3 Assemble motion picture camera body components in the required configuration/mode
 - 4.4 Prepare a motion picture camera for *Steadicam* use as required
 - 4.5 Adjust shutter angle to a specified setting
 - 4.6 Position a digital motion picture camera and mounts ready for shooting
 - 4.7 Attach filters in the correct alignment
 - 4.8 Engage a lens in a mount, locking it securely and safely
 - 4.9 Fit supports as required
 - 4.10 Assemble mechanical and electrical attachments as required
 - 4.11 Attach a matte box
 - 4.12 Adjust aperture to a specified setting
 - 4.13 Carry out all necessary checks on relevant equipment and materials
 - 4.14 Ensure the availability, functionality, safety and security of relevant equipment and materials

FP02 Prepare Digital Motion Picture Camera and Set Up Accessories

Knowledge and Understanding Requirements:

- 1.1 Identify key characteristics of relevant equipment
 - 1.2 Describe the consequences of incorrect handling of relevant equipment and materials
 - 1.3 Explain how to store relevant equipment and materials safely and securely
 - 1.4 Explain the role and responsibilities of Clapper Loaders/2nd Camera assistants in relation to preparing relevant equipment
 - 1.5 Describe how to follow manufacturers' instructions for relevant equipment
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- 2.1 Identify key aspects of relevant Health & Safety issues and procedures
 - 2.2 Identify any special requirements to ensure the safety and security of relevant equipment when unattended

Performance Requirements:

- 3.1 Liaise with appropriate personnel to address, report and resolve any technical requirements or problems in order to maintain motion picture cameras
 - 3.2 Delegate tasks when required
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- 4.1 Use techniques for testing and handling relevant equipment and materials
 - 4.2 Check that a digital motion picture camera is clean and ready to receive accessories
 - 4.3 Set FPS, Shutter, Colour Temperature, ISO and any other Project/Menu settings as required
 - 4.4 Insert or attach recording media as required
 - 4.5 Format recording media as required
 - 4.6 Set up, adjust and operate all relevant accessories safely and securely as required

FP03 Maintain Digital Motion Picture Cameras

Knowledge and Understanding Requirements:

- 1.1 Identify key characteristics of relevant equipment
 - 1.2 Describe the consequences of incorrect handling of relevant equipment and materials
 - 1.3 Explain how to store relevant equipment and materials safely and securely
 - 1.4 Describe procedures and products for cleaning and maintaining relevant equipment and materials
 - 1.5 Explain the role and responsibilities of Clapper Loaders/2nd Camera assistants in relation to maintaining motion picture cameras
 - 1.6 Describe how to follow manufacturers' instructions for relevant equipment
- 2.1 Identify key aspects of relevant Health & Safety issues and procedures
 - 2.2 Identify any special requirements to ensure the safety and security of relevant equipment when unattended

Performance Requirements:

- 3.1 Liaise with appropriate personnel to address, report and resolve any technical requirements or problems in order to maintain motion picture cameras
- 4.1 Use techniques for testing and handling relevant equipment and materials
 - 4.2 Clean all user accessible parts of a motion picture camera
 - 4.3 Examine and clean Optical Low Pass Filter (OLPF)
 - 4.4 Identify any malfunctions and/or broken components
 - 4.5 Test lens collimation, back focus and tracking

FP04 Select Digital Motion Picture Camera Equipment and Perform Photographic Tests Pre-shoot

Knowledge and Understanding Requirements:

- 1.1 Identify key characteristics of relevant equipment
 - 1.2 Describe the consequences of incorrect handling of relevant equipment and materials
 - 1.3 Explain how to store relevant equipment and materials safely and securely
 - 1.4 Describe procedures and products for cleaning and maintaining relevant equipment and materials
 - 1.5 Explain the effects produced by different types of optical equipment
 - 1.6 Explain the effect of camera formats and focal length on angle of view
 - 1.7 Explain how to analyse the depth of field and focus splits
 - 1.8 Explain the implications of different flange focal depths
 - 1.9 Explain how to assess zoom collimation and back focus
 - 1.10 Explain how circles of confusion affect image sharpness
 - 1.11 Explain how macro lenses perform
 - 1.12 Explain when and how light source frequencies affect shutter angle windows for flicker-free shooting
 - 1.13 Identify commonly occurring flickering light sources
 - 1.14 Explain types of experiments during testing which may enhance an agreed visual style and brief
 - 1.15 Explain the role and responsibilities of 2nd Camera assistants in relation to selecting motion picture camera equipment and performing photographic tests
 - 1.16 Explain the effects of menu settings and Look Up Tables (LUTs)
 - 1.17 Describe how to follow manufacturers' instructions for relevant equipment
- 2.1 Identify key aspects of relevant Health & Safety issues and procedures
 - 2.2 Identify any special requirements to ensure the safety and security of relevant equipment when unattended

Performance Requirements:

- 3.1 Liaise with appropriate personnel to address, report and resolve any technical requirements or problems in order to select motion picture camera equipment and perform photographic tests
 - 3.2 Delegate tasks when required
- 4.1 Use techniques for testing and handling relevant equipment and materials
 - 4.2 Provide sufficient equipment and materials to meet the requirements of a shoot
 - 4.3 Draw up an inventory of all selected equipment
 - 4.4 Carry out all necessary tests and checks on equipment and materials
 - 4.5 Analyse the results of tests, taking any remedial action as necessary
 - 4.6 Shoot frame leader

FP05 Test Electronic Functions of Digital Motion Picture Cameras Pre-shoot

Knowledge and Understanding Requirements:

- 1.1 Identify key characteristics of relevant equipment
 - 1.2 Describe the consequences of incorrect handling of relevant equipment and materials
 - 1.3 Explain how to store relevant equipment and materials safely and securely
 - 1.4 Describe procedures and products for cleaning and maintaining relevant equipment and materials
 - 1.5 Identify the personnel to whom problems should be reported
 - 1.6 Explain how to tactfully suggest solutions to problems
 - 1.7 Explain the role and responsibilities of Clapper Loaders/2nd Camera assistants in relation to testing electronic and mechanical functions of motion picture cameras
 - 1.8 Explain the effects of menu settings and Look Up Tables (LUTs)
 - 1.9 Describe how to follow manufacturers' instructions for relevant equipment
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- 2.1 Identify key aspects of relevant Health & Safety issues and procedures
 - 2.2 Identify any special requirements to ensure the safety and security of relevant equipment when unattended

Performance Requirements:

- 3.1 Liaise with appropriate personnel to address, report and resolve any technical requirements or problems in order to test electronic and mechanical functions of cameras
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- 4.1 Use techniques for testing and handling relevant equipment and materials
 - 4.2 Ensure the availability, functionality, safety and security of relevant equipment and materials
 - 4.3 Carry out all necessary tests and checks on electronic camera setting, ensuring that all are operational
 - 4.4 Monitor the operation of equipment and materials, taking appropriate remedial action as necessary
 - 4.5 Ensure that *Cinetape/rangefinder* is correctly calibrated
 - 4.6 Ensure that electronic Lens Control System is correctly calibrated
 - 4.7 Ensure that electronic waveform monitors are functional
 - 4.8 Ensure that image transmitters are functional

FP06 Set and Monitor Digital Motion Picture Camera and Lens Parameters During a Shoot

Knowledge and Understanding Requirements:

- 1.1 Identify key characteristics of relevant equipment
 - 1.2 Describe the consequences of incorrect handling of relevant equipment and materials
 - 1.3 Explain how to store relevant equipment and materials safely and securely
 - 1.4 Describe procedures and products for cleaning relevant equipment and materials
 - 1.5 Explain the effects produced by different types of optical equipment
 - 1.6 Explain the effect of camera formats and focal length on angle of view
 - 1.7 Explain how to analyse the depth of field and focus splits
 - 1.8 Explain the implications of different flange focal depths
 - 1.9 Explain how to assess zoom collimation and back focus
 - 1.10 Explain how circles of confusion affect image sharpness
 - 1.11 Explain how macro lenses perform
 - 1.12 Explain when and how light source frequencies affect shutter angle windows for flicker-free shooting
 - 1.13 Identify commonly occurring flickering light sources
 - 1.14 Explain the relationship between frequency and shutter angle windows
 - 1.15 Explain how to tactfully suggest solutions to any problems
 - 1.16 Explain the role and responsibilities of Clapper Loaders/2nd Camera assistants in relation to setting and monitoring all motion picture camera and lens parameters
 - 1.17 Explain the effects of menu settings and Look Up Tables (LUTs)
 - 1.18 Describe how to follow manufacturers' instructions for relevant equipment
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- 2.1 Identify key aspects of relevant Health & Safety issues and procedures
 - 2.2 Identify any special requirements to ensure the safety and security of relevant equipment when unattended

Performance Requirements:

- 3.1 Liaise with appropriate personnel to address, report and resolve any technical requirements or problems in order to set and monitor motion picture camera and lens parameters
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- 4.1 Use techniques for testing and handling relevant equipment and materials
 - 4.2 Select and fit filters as required

- 4.3 Calculate the combined filter factor
- 4.4 Identify any problems with equipment and materials
- 4.5 Set camera speeds as required
- 4.6 Set shutter angle as required
- 4.7 Set ISO as required
- 4.8 Set colour temperature as required
- 4.9 Set apertures as required
- 4.10 Set focal lengths for zoom lenses as required
- 4.11 Make adjustments to equipment as required
- 4.12 Carry out all necessary tests and checks on equipment ensuring that all are operational, safe and secure
- 4.13 Monitor the operation of equipment and materials, taking appropriate remedial action as necessary
- 4.14 Set camera menus as required

FP07 Focus Lenses and Adjust Digital Motion Picture Camera and Lens Parameters During a Shoot

Knowledge and Understanding Requirements:

- 1.1 Identify key characteristics of relevant equipment
 - 1.2 Describe the consequences of incorrect handling of relevant equipment and materials
 - 1.3 Explain how to store relevant equipment and materials safely and securely
 - 1.4 Describe procedures and products for cleaning and maintaining relevant equipment and materials
 - 1.5 Explain the effects produced by different types of optical equipment
 - 1.6 Explain how to make relevant calculations
 - 1.7 Explain techniques for calculating focus splits
 - 1.8 Explain how focus depth and hyperfocal distance affect depth of field calculations
 - 1.9 Explain the role and responsibilities of Clapper Loaders/2nd Camera assistants in relation to focusing lenses and adjusting motion picture camera and lens parameters
 - 1.10 Describe how to follow manufacturers' instructions for relevant equipment
- 2.1 Identify key aspects of relevant Health & Safety issues and procedures
 - 2.2 Identify any special requirements to ensure the safety and security of relevant equipment when unattended

Performance Requirements:

- 3.1 Liaise with appropriate personnel to address, report and resolve any technical requirements or problems in order to focus lenses, adjust motion picture cameras and lens parameters
- 4.1 Use techniques for testing and handling relevant equipment and materials
 - 4.2 Place focus marks with assistance from your 2nd AC
 - 4.3 Measure focus marks as required
 - 4.4 Mark up lens scale with relevant focus points
 - 4.5 Calculate Depth of Field, Focus Splits or Hyperfocal Distance as required
 - 4.6 Maintain focus throughout a shot with an appropriate feel for the timing of focus changes as required
 - 4.7 Monitor the operation of equipment, taking appropriate remedial action as necessary

FP08 Review Digital Motion Picture Camera Products and Analyse for Faults

Knowledge and Understanding Requirements:

- 1.1 Identify key characteristics of relevant equipment
- 1.2 Describe the consequences of incorrect handling of relevant equipment and materials
- 1.3 Explain how to store relevant equipment and materials safely and securely
- 1.4 Explain the effects produced by different types of optical equipment
- 1.5 Explain the effect of camera formats and focal length on angle of view
- 1.6 Explain how to analyse the depth of field and focus splits
- 1.7 Explain the implications of different flange focal depths
- 1.8 Explain how to assess zoom collimation and back focus
- 1.9 Explain how circles of confusion affect image sharpness
- 1.10 Explain how macro lenses perform
- 1.11 Explain when and how light source frequencies affect shutter angle windows for flicker-free shooting
- 1.12 Identify commonly occurring flickering light sources
- 1.13 Explain how to establish and maintain contact with manufacturers and suppliers
- 1.14 Identify appropriate personnel to whom to report any problems
- 1.15 Explain how to tactfully suggest solutions to any problems
- 1.16 Explain the role and responsibilities of Clapper Loaders/2nd Camera assistants in relation to reviewing

camera products and analysing for faults

1.17 Describe how to follow manufacturers' instructions for relevant equipment

2.1 Identify key aspects of relevant Health & Safety issues and procedures

2.2 Identify any special requirements to ensure the safety and security of relevant equipment when unattended

Performance Requirements:

3.1 Liaise with appropriate personnel to address, report and resolve any technical requirements or problems in order to review motion picture camera products and analyse for faults

4.1 Use techniques for testing and handling relevant equipment and materials

4.2 Ensure that all accessories are compatible with the camera system

4.3 Identify points of soft and incorrectly placed focus

4.4 Identify points of loss of image integrity

4.5 Identify issues caused by lenses that have lost collimation

FP09 De-rig Motion Picture Camera Equipment

Knowledge and Understanding Requirements:

1.1 Identify key characteristics of relevant equipment

1.2 Describe the consequences of incorrect handling of relevant equipment and materials

1.3 Explain how to store relevant equipment and materials safely and securely

1.4 Describe procedures and products for cleaning relevant equipment and materials

1.5 Explain the role and responsibilities of Clapper Loaders/2nd Camera assistants in relation to de-rigging equipment

1.6 Describe how to follow manufacturers' instructions for relevant equipment

2.1 Identify key aspects of relevant Health & Safety issues and procedures

2.2 Identify any special requirements to ensure the safety and security of relevant equipment when unattended

Performance Requirements:

3.1 Liaise with appropriate personnel to address, report and resolve any technical requirements or problems in order to de rig motion picture camera equipment

3.2 Delegate tasks when required

4.1 Use techniques for testing and handling relevant equipment and materials

4.2 Secure and protect motion picture camera

4.3 Remove accessories

4.4 Remove lenses

4.5 Remove motion picture camera from mount

4.6 Disassemble motion picture camera

4.7 Perform all necessary checks on equipment and accessories

4.8 Clean all equipment and accessories

4.9 Pack relevant equipment and accessories safely and securely in original cases

FP10 Pack and Transport Motion Picture Camera Equipment, and Prepare all Required Documentation

Knowledge and Understanding Requirements:

1.1 Describe the consequences of incorrect handling of relevant equipment and materials

1.2 Explain how to pack motion picture cameras and lenses safely and securely

1.3 Explain the role and responsibilities of Clapper Loaders/2nd Camera assistants in relation to packing and transporting motion picture camera equipment

1.4 Describe documentation requirements for onward transportation

1.5 Describe how to follow manufacturers' instructions for relevant equipment

2.1 Identify key aspects of relevant Health & Safety issues and procedures

2.2 Identify any special requirements to ensure the safety and security of relevant equipment when unattended

2.3 Identify any special requirements to ensure the safety and security of relevant equipment during transportation

Performance Requirements:

- 3.1 Liaise with appropriate personnel to address, report and resolve any technical requirements or problems in order to pack and transport motion picture camera equipment
- 3.2 Delegate tasks when required
- 4.1 Use techniques for testing and handling relevant equipment and materials
- 4.2 Check that all equipment is packed securely and safely in appropriate packaging in line with any regulations and restrictions
- 4.3 Check the match between equipment delivered/dispatched and documentation, noting and resolving any discrepancies
- 4.4 Label all cases clearly and accurately in line with any regulatory requirements

FP11 Reducing Risks to Health & Safety on a Film/Television Set

Knowledge and Understanding Requirements:

- 1.1 Define hazards and risks
- 1.2 Outline key hazards and risks in own workplace, describing safe working practices
- 1.3 Outline key hazards and risks within own job role, describing precautions
- 2.1 Identify own responsibilities for Health & Safety in own workplace and job role under Health & Safety legislation, explaining the importance of personal presentation and behaviour
- 2.2 Describe procedures for dealing with risks outside the scope of own responsibility, identifying the appropriate personnel with whom to liaise in own workplace

Performance Requirements:

- 3.1 Identify workplace instructions relevant to own job
- 3.2 Identify any unsafe practices in own workplace and job role
- 3.3 Check which potentially unsafe working practices present the highest risk to self and others
- 3.4 Take action to address any hazards in accordance with workplace procedures and legal requirements
- 4.1 Work safely in accordance with own level of competence, relevant instructions and legal requirements, following environmentally friendly practices
- 4.2 Manage any Health & Safety risks within own capability and responsibility
- 4.3 Suggest ways of reducing risks to Health & Safety to the appropriate personnel
- 4.4 Report any differences between workplace and suppliers' or manufacturers' instructions
- 4.5 Ensure that own personal presentation and behaviour meets the requirements of relevant instructions, procedures and legal requirements

FP12 Contribute to Good Working Relationships

Knowledge and Understanding Requirements:

- 1.1 Identify key roles and tasks in the production process
- 1.2 Outline how to clarify, agree and revise working arrangements in a way which promotes good working relationships
- 2.1 Explain the importance of balancing the needs of tasks and people
- 2.2 Explain the importance of sharing information with colleagues
- 2.3 Identify ways of tactfully requesting others to change working arrangements to improve own productivity
- 2.4 Describe how to explain own decisions clearly and constructively
- 2.5 Describe how to resolve conflict situations or dissatisfaction
- 2.6 Explain the importance of liaison with colleagues to productivity

Performance Requirements:

- 3.1 Clarify, agree and revise working arrangements, promoting good working relationships
- 3.2 Communicate own decisions clearly and constructively
- 3.3 Resolve as necessary any conflict situations or dissatisfaction
- 3.4 Liaise with appropriate colleagues to ensure effective and productive working

Film Bolt-On Units

FP13 Prepare Film Motion Picture Camera Magazines, Lace Film and Set Up Accessories

Knowledge and Understanding Requirements:

- 1.1 Identify key characteristics of relevant equipment
- 1.2 Describe the consequences of incorrect handling of relevant equipment and materials
- 1.3 Explain how to store relevant equipment and materials safely and securely
- 1.4 Explain the role and responsibilities of Clapper Loaders/2nd Camera assistants in relation to preparing relevant equipment
- 1.5 Describe how to follow manufacturers' instructions for relevant equipment

- 2.1 Identify key aspects of relevant Health & Safety issues and procedures
- 2.2 Identify any special requirements to ensure the safety and security of relevant equipment when unattended

Performance Requirements:

- 3.1 Liaise with appropriate personnel to address, report and resolve any technical requirements or problems in order to maintain motion picture cameras

- 4.1 Use techniques for testing and handling relevant equipment and materials
- 4.2 Check that a motion picture camera is clean and ready to receive the magazine
- 4.3 Fit a magazine safely and securely
- 4.4 Lace film accurately along the film path
- 4.5 Check that film runs smoothly when a film camera is operated
- 4.6 Adjust pull-down pitch to minimise motion picture camera noise
- 4.7 Reset a footage counter
- 4.8 Set up, adjust and operate all relevant accessories safely and securely as required

FP14 Maintain Film Motion Picture Cameras

Knowledge and Understanding Requirements:

- 1.1 Identify key characteristics of relevant equipment
- 1.2 Describe the consequences of incorrect handling of relevant equipment and materials
- 1.3 Explain how to store relevant equipment and materials safely and securely
- 1.4 Describe procedures and products for cleaning and maintaining relevant equipment and materials
- 1.5 Explain the role and responsibilities of Clapper Loaders/2nd Camera assistants in relation to maintaining motion picture cameras
- 1.6 Describe how to follow manufacturers' instructions for relevant equipment

- 2.1 Identify key aspects of relevant Health & Safety issues and procedures
- 2.2 Identify any special requirements to ensure the safety and security of relevant equipment when unattended

Performance Requirements:

- 3.1 Liaise with appropriate personnel to address, report and resolve any technical requirements or problems in order to maintain motion picture cameras

- 4.1 Use techniques for testing and handling relevant equipment and materials
- 4.2 Lubricate all relevant components of a film advance mechanism
- 4.3 Clean all user accessible parts of a motion picture camera
- 4.4 Identify any malfunctions and/or broken components
- 4.5 Test lens collimation and tracking
- 4.6 Resolve any problems relating to jammed film

FP15 Review Film Motion Picture Camera Products and Analyse for Faults

Knowledge and Understanding Requirements:

- 1.1 Identify key characteristics of relevant equipment
- 1.2 Describe the consequences of incorrect handling of relevant equipment and materials
- 1.3 Explain how to store relevant equipment and materials safely and securely
- 1.4 Explain the effects produced by different types of optical equipment
- 1.5 Explain the effect of camera formats and focal length on angle of view

- 1.6 Explain how to analyse the depth of field and focus splits
- 1.7 Explain the implications of different flange focal depths
- 1.8 Explain how to assess zoom collimation and back focus
- 1.9 Explain how circles of confusion affect image sharpness
- 1.10 Explain how macro lenses perform
- 1.11 Explain when and how light source frequencies affect shutter angle windows for flicker-free shooting
- 1.12 Identify commonly occurring flickering light sources
- 1.13 Describe currently used lacing patterns
- 1.14 Explain how to establish and maintain contact with manufacturers and suppliers
- 1.15 Identify appropriate personnel to whom to report any problems
- 1.16 Explain how to tactfully suggest solutions to any problems
- 1.17 Explain the role and responsibilities of Clapper Loaders/2nd Camera assistants in relation to reviewing camera products and analysing for faults
- 1.18 Describe how to follow manufacturers' instructions for relevant equipment

- 2.1 Identify key aspects of relevant Health & Safety issues and procedures
- 2.2 Identify any special requirements to ensure the safety and security of relevant equipment when unattended

Performance Requirements:

- 3.1 Liaise with appropriate personnel to address, report and resolve any technical requirements or problems in order to review motion picture camera products and analyse for faults
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- 4.1 Use techniques for testing and handling relevant equipment and materials
 - 4.2 Identify points of soft and incorrectly placed focus
 - 4.3 Identify points with non clear gates and/or scratches
 - 4.4 Identify any laboratory faults
 - 4.5 Identify any faults with and/or damage to stock
 - 4.6 Identify points of loss of image integrity