

<b>Protect chicken welfare in automated electrical stun/kill systems</b>	
<b>SQA reference number: H3PS 04</b>	<b>Unit start date: 12/12/2012</b>
<b>SSC reference number: R0110</b>	
<p><b>Unit summary</b>            This unit supports workforce development for those whose role includes responsibilities for the protection of chicken welfare in automated electrical stunning/ killing systems.</p> <p>The unit is designed for use by operatives and others who carry out these workplace activities. The aim of the unit is to determine competent performance to recognised National Occupational Standards. This unit meets the requirements of EU regulation 1099/2009 for the protection of animals at time of killing.</p>	
<p><b>Assessment requirements /guidance</b>            This unit is designed to assess the skills and knowledge of learners in the workplace for roles including responsibilities for the protection of chicken welfare in automated electrical stunning/ killing systems.</p> <p>The learner must be able to demonstrate their competent performance consistently over a period of time, to meet all of the assessment criteria. This will be achieved by at least two observations of competent performance in the workplace, and may be supported by witness testimony and other workplace evidence. Observations must ensure that the learner's working practice is at commercial speed and in compliance with standard operating procedures. Assessment methods appropriate to the learner must be used to generate evidence of knowledge and understanding – which can be assessed on or off the job.</p> <p>The Improve Assessment Strategy for Qualifications in Food and Drink, Scotland sets out the overarching assessment requirements.</p>	
<p><b>Relationship between the unit and relevant national occupational standards, and other qualifications</b>            This unit of assessment relates directly to Improve National Occupational Standards;            MP.108S Control an automated stunning system            MP.109K Understand how to control an automated stunning system</p> <p>It is also used in the QCF Awards and Certificates for Protecting Animal Welfare at Time of Killing: QCF Level 2, QCF Credit 2, Guided Learning Hours 13.</p>	

<b>Learning Outcomes</b> <b>The learner will:</b>	<b>Assessment Criteria</b> <b>The learner can:</b>
<p>1. Start up and operate electrical stunning/killing systems in accordance with Food Business Operator's (FBO's) procedures</p>	<p>1.1 Check that routine maintenance, calibration and cleaning of the system has been carried out</p> <p>1.2 Check that controls are set in line with processing requirements including</p> <ul style="list-style-type: none"> <li>• water flow</li> <li>• electrical voltage, current, frequency</li> <li>• depth of immersion</li> <li>• stun duration</li> <li>• duty cycle where applicable</li> </ul> <p>1.3 Ensure that birds do not enter the system if they cannot be bled in accordance with procedures</p> <p>1.4 Assess the effectiveness of the stunning/killing system</p> <p>1.5 Start up and operate systems</p> <p>1.6 Take action to deal with birds that are not stunned/killed effectively</p> <p>1.7 Monitor the effective stunning/killing of birds throughout operations</p> <p>1.8 Follow FBO's procedures to operate the system.</p>
<p>2. Understand how to protect bird welfare in electrical stunning/killing systems in accordance with FBO's procedures</p>	<p>3.1 State own responsibilities under animal welfare regulations for the electrical stunning/killing of birds</p> <p>3.2 State the behavioural characteristics of birds in electrical stunning/killing operations</p> <p>3.3 Outline why it is important to minimise avoidable pain, suffering and distress</p> <p>3.4 Outline how electrical water baths operate to effectively stun/kill birds including</p> <ul style="list-style-type: none"> <li>• recommended minimum currents for stunning /killing using specific frequencies</li> <li>• use of higher frequency electrical currents</li> <li>• control of depth of immersion</li> <li>• importance of good electrical conductivity</li> <li>• factors which affect the resistance of the circuit</li> <li>• importance of checking and maintaining the</li> </ul>

	<p>equipment</p> <p>3.5 Describe how to carry out a back-up stunning or killing method and the circumstances in which this would be necessary</p> <p>3.6 Outline how to recognise signs of</p> <ul style="list-style-type: none"><li>• effective stunning/killing</li><li>• ineffective stunning/killing</li><li>• pre-stun shocks</li><li>• consciousness</li></ul> <p>3.7 Outline the manufacturer's instructions for operating the stunning/killing system</p> <p>3.8 Outline the FBO's procedures for operating the electrical stunning/killing system.</p>
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