**Module 4, Week 1 Exercise 5 Worksheet**

Refer to AS/NZS 3000:2018 Section 3.8 to answer the following:

1. Complete the conductor colours for Installation Wiring:

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| Function | Insulation Colour |
| Protective Earth |  |
| Equipotential Bonding |  |
| Neutral |  |
| Active |  |

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| 1. When green/yellow is used, what is the maximum and minimum percentage of the surface area one colour may cover? |

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| 1. What is the only permitted colour for neutral conductors in New Zealand domestic installations? |

While some of the colour codes for power wires and cables are mandatory, others are optional. Refer to Figure 3.2 (multiphase cables) to answer the following:

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| 1. What are the recommended colours for L1, L2 and L3 in a three-phase supply? |

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| 1. Which colours are not permitted for L1, L2 and L3? |

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| 1. In what circumstances does an earthing conductor **not** have to be coloured green/yellow? |

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| 1. What colours may be used for sheathing in New Zealand? |