British, European and international standards relevant to working in thermal environments

This is a non-exhaustive list of useful standards to refer to when developing your thermal risk assessment:

- BS EN ISO 9886: Ergonomics. Evaluation of thermal strain by physiological measurements
- BS EN 28996 Ergonomics. Determination of metabolic heat production
- BS EN 27243 Hot environments. Estimation of the heat stress on working man, based on the WBGT-index (wet bulb globe temperature)
- BS 7915: Ergonomics of the thermal environment. Guide to design and evaluation of working practices in cold indoor environments
- DD ENV ISO 11079: Evaluation of cold environments. Determination of required clothing insulation (IREQ)
- BS EN ISO 7730: Ergonomics of the thermal environment. Analytical determination and interpretation of thermal comfort using calculation of the PMV and PPD indices and local thermal comfort criteria
- BS EN ISO 10551: Ergonomics of the thermal environment. Assessment of the influence of the thermal environment using subjective judgement scales
- BS EN ISO 12894: Ergonomics of the thermal environment. Medical supervision of individuals exposed to extreme hot or cold environments
- BS EN ISO 7933: Ergonomics of the thermal environment. Analytical determination and interpretation of heat stress using calculation of the predicted heat strain
- BS 7963: Ergonomics of the thermal environment. Guide to the assessment of heat strain in workers wearing personal protective equipment
- BS EN ISO 7726: Ergonomics of the thermal environment. Instruments for measuring physical quantities
- BS EN 14058: Protective clothing. Garments for protection against cool environments
- BS EN ISO 15265: Ergonomics of the thermal environment. Risk assessment strategy for the prevention of stress or discomfort in thermal working conditions
- BS EN 511: Protective gloves against cold
- BS EN ISO 13732-3: Ergonomics of the thermal environment. Methods for the assessment of human responses to contact with surfaces
- BS EN 563 Safety of machinery. Temperatures of touchable surfaces. Ergonomics data to establish temperature limit values for hot surfaces
- BS EN ISO 11399: Ergonomics of the thermal environment. Principles and application of relevant international standards
- BS EN ISO 9920: Ergonomics of the thermal environment. Estimation of thermal insulation and water vapour resistance of a clothing ensemble
- BS EN ISO 15743: Ergonomics of the thermal environment. Cold workplaces. Risk assessment and management

The most current versions of these British Standards can be obtained in PDF or hard copy formats from BSI. You can also contact BSI Customer Services for hard copies only Tel: 0845 086 9001 email: cservices@bsigroup.com.

Further information on thermal comfort is available on the HSE website.