Modification history

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| Release | Comments |
| Release 1 | This version released with MSF Furnishing Training Package release 9.0. |

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| MSFOPS2X1 | Make measurements and calculations |
| Application | This unit of competency describes the skills and knowledge required to identify the measuring equipment required in work tasks, and make and record accurate measurements and calculations. It includes identifying and responding to routine problems with the process.  The unit applies to individuals who take measurements and make calculations as part of their job role in the furnishing sector.  All work must be carried out to comply with workplace procedures, according to state/territory health and safety regulations, legislation and standards that apply to the workplace.  No licensing, legislative or certification requirements apply to this unit at the time of publication. |
| Pre-requisite Unit | Nil |
| Unit Sector | Operations (OPS) |

| Elements | Performance Criteria |
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| Elements describe the essential outcomes. | Performance criteria describe the performance needed to demonstrate achievement of the element. |
| 1. Identify required measurements and equipment | 1.1 Identify measuring units to be used, and the level of detail required from work instructions  1.2 Select measuring equipment and method suited to the task  1.3 Check condition and calibration of measuring equipment and confirm it is fit for purpose |
| 2. Take measurements | 2.1 Take measurements using mathematical techniques suited to task  2.2 Check accuracy and correctness of numerical information against expected range of results  2.3 Record results to required level of detail and accuracy according to workplace standards |
| 3. Carry out calculations | 3.1 Identify data from measurement activity required to perform calculations and confirm against work instructions  3.2 Determine calculation methods and techniques suited to task  3.3 Carry out calculations and check accuracy of results against expected range of results  3.4 Record results to required level of detail and accuracy according to workplace standards |
| 4. Address routine and non-routine errors | 4.1 Identify errors that occur during measurement and calculation activity  4.2 Take action to eliminate risk of errors  4.3 Identify and take necessary action to rectify errors  4.4 Log and report errors according to workplace standards |

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| Foundation Skills  This section describes those language, literacy, numeracy and employment skills that are essential for performance in this unit of competency but are not explicit in the performance criteria. | |
| Skill | Description |
| Reading | * Interpret familiar workplace documentation, including:   work instructions and orders  product and material specifications |
| Oral communication | * Communicate ideas and information, and report problems |
| Numeracy | * Use measuring and calculating tools in familiar applications * Perform familiar and predictable calculations with the four operations (+, -, x, ÷) (addition, subtraction, multiplication and division) * Accurately measure and calculate quantities |

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| Unit Mapping Information | | | |
| Code and title current release | Code and title previous release | Comments | Equivalence status |
| MSFOPS2X1 Make measurements and calculations | MSFGN2001 Make measurements and calculations | Unit code updated  Application updated  Performance Criteria updated  Assessment Requirements updated | Equivalent |

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| Links | Companion Volumes, including Implementation Guides, are available at [training.gov.au](https://training.gov.au/) |

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| TITLE | Assessment requirements for MSFOPS2X1 Make measurements and calculations |
| Performance Evidence | |
| An individual demonstrating competency must satisfy all of the elements and performance criteria in this unit.  There must be evidence that the individual has made measurements and calculations for at least three different projects. | |

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| Knowledge Evidence |
| An individual must be able to demonstrate the knowledge required to perform the tasks outlined in the elements and performance criteria of this unit. This includes knowledge of:   * purpose for measuring and calculating in workplace context * mathematical principles including the four operations (+, -, x, ÷) (addition, subtraction, multiplication and division) * problem-solving strategies to make basic measurements and calculations * uses and limitations of equipment used to take measurements and make calculations, including:   rulers  tape measures  digital measuring devices using laser or equivalent technology  levelling devices  digital or manual corner/angle gauges  calculating devices   * calibration and testing techniques for digital and manual measuring devices * workplace procedures and protocols relating to:   handling materials and products while undertaking measurement to minimise damage  recording and reporting outcomes of measurement and calculation  reporting errors  quality standards. |

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| Assessment Conditions |
| Assessment of the skills in this unit of competency must take place under the following conditions:   * physical conditions:   competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting   * resources, equipment and materials:   measuring and calculating equipment  recording equipment   * specifications:   project plans and briefs  quality standards and enterprise procedures.   * relationships:   supervisor.  Assessors of this unit must satisfy the requirements for assessors in applicable vocational education and training legislation, frameworks and/or standards. |

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