

Linoleum



**Name:**

**Supporting:**

***MSFFL3012: Install linoleum floor coverings***

**Workbook**

Linoleum

Workbook

Containing learning activities and assignments for the unit of competency:

***MSFFL3012: Install linoleum floor coverings***

The assignment templates are also available in an electronic ‘Word’ version, downloadable from the INTAR website at:

[www.intar.com.au](http://www.intar.com.au)







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This training resource forms part of the **Flooring Technology project**, developed and coordinated by INTAR (Industry Network Training and Assessment Resources). To see the on-line versions of the resources available under this project, please go to the INTAR website and follow the links.

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In all cases, users should consult the original source documents before relying on any information presented in the resource. These source documents include manufacturers’ installation guides, Australian Standards, codes of practice and other materials produced by specialist industry bodies and government agencies.

**Acknowledgements**

The INTAR project team comprises the following people: David McElvenny (Workspace Training) – lead writer and project manager; Kath Ware (Workspace Training) – instructional designer and graphic artist, Jim Vaughan (VCSS) – technical developer and programmer; Alex Vaughan (VCSS) – assistant programmer and voice-over narrator.

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# Introduction

*Linoleum* is a ‘learning unit’ from the Flooring Technology training resource. It supports the following competency from the *Certificate III in Flooring Technology* (MSF30813):

* *MSFFL3012: Install linoleum floor coverings*

To be assessed as competent, your assessor will use a range of methods to check your understanding of the concepts presented in the Learner guide for this unit and your practical ability to install linoleum floor coverings.

These may include:

* written assignments
* practical demonstrations
* on-the-job discussions about how you go about particular activities
* learning activities undertaken while you’re progressing through the unit
* examples of installations you have undertaken
* log book or work diary.

### Literacy, numeracy and computer skills

Literacy is the ability to read and write. To complete this qualification, you will need sufficient literacy skills to produce a range of workplace documents. You will also need the skills to be able to read and understand documents such as order forms, installation instructions, project briefs and safe operating procedures.

Numeracy is the ability to work with numbers. Flooring installers need to do lots of measure-ups and calculations, so there will be many opportunities for you to learn and practice your numeracy skills.

When it comes to completing the written assignments for this qualification, a certain level of literacy ability is required to read the questions and write down your answers. There will also be times when you are asked to generate documents on a computer.

Obviously, it’s important that you clearly understand what the assignment is asking you to do, and that your submissions are a good reflection of what you really know. So if you’re having trouble reading the questions, writing down your answers, or using certain computer programs, make sure you speak to your trainer before you hand the assignment in.

There are various ways your trainer can help you. For example, they may be able to ask the assignment questions verbally and help you to write down your answers. They may also be able to show you sample answers to similar questions, which will let you look at the way they’re written and give you hints on how to write your own. You may also be allowed to do the assignment with the assistance of another person.

### Applying for RPL

RPL stands for **Recognition of Prior Learning. It is a** form of assessment that acknowledges the skills and knowledge you have gained through:

* on-the-job experience
* formal training in other courses
* life experience, through your hobbies or other outside activities.

If you believe that you are already competent in some or all of the skills covered in this unit, ask your assessor about how to apply for RPL.

### Using this workbook

All of the lessons in the Learner guide for this unit have learning activities at the end. Their purpose is to provide discussion points and questions to help reinforce your understanding of the concepts being presented.

There are also a range of assignments, which appear at the end of each section. These are designed to test your knowledge of the subject matter and ability to submit written responses in an acceptable format.

This workbook reproduces all of the learning activities and assignments in a format that lets you handwrite your answers to the questions.

Note that your trainer may ask you to produce a computer-generated document for all of the formal assignments, either printed out in hard copy or submitted electronically. To do this, go to the website version of the unit and look for the *Assignment* link in each section. This will allow you to type your answers into the ‘Word’ document and then either print it out or email it direct to your trainer as an attachment.

You may also be asked to share your learning activity answers electronically, especially if you are undertaking this unit by distance learning and are linked up with fellow students in other locations. This might be done through group emails or via a social networking site such as Facebook. In these cases, you should use the website resource rather than this workbook.

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# Part 1

# Learning activities

## Properties of linoleum

Go to the web link below and watch the Forbo video clip. Then answer the questions.

<http://www.youtube.com/watch?v=STu33sT7hVo>

1. What brand name is used by Forbo for their linoleum products?

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| --- |
|  |

1. How long does the linoleum sheet spend in the drying room while it cures?

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|  |

## Installing sheet linoleum

Go to the web link below and watch the video clip: ‘Forbo marmoleum sheet installation video’ Then answer the questions.

<http://www.youtube.com/watch?v=NPgMgoRNM3U>

1. When should you roll out the material after it has been laid into the adhesive?

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| --- |
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1. What would happen to the sheet if you didn’t massage the end curl before you laid it into position?

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1. What does the presenter suggest you do with the adhesive to help the ‘stove bar’ (bight mark) bond properly to the subfloor?

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Now go to a second Forbo clip called ‘Adhesive-9’. Watch the clip and answer the following questions.

<http://www.youtube.com/watch?v=mvmIm1bFOHs>

1. What conditions will affect the ‘open time’ and ‘working time’ of an adhesive?

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1. What does ‘fully wet’ mean?

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1. What does ‘semi-wet’ mean?

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1. What does ‘flashed off’ mean?

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1. At what stage of the drying process should you lay the sheet into the adhesive?

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1. What is one of the most common causes of installation failure in Marmoleum?

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## Installing border coving

Go to the web link below and watch the video clip: ‘Installation for Flashcove prefabricated bases’. Then answer the questions.

<http://www.youtube.com/watch?v=GiARlVIM1Sw>

1. How does the installer find the angle for the external mitre cuts with the use of a bevel (rather than a protractor)?

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1. What tool does he use to push the coving firmly into the adhesive?

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1. Why is the field material laid after he has installed the flash coving?

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# Part 2

# Assignment

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| --- |
| Assignment |

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| --- | --- | --- | --- |
| Name |  | Date |  |

1. (a) What are the two main raw materials used to make linoleum?

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1. What is the backing material made from?

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1. Why is linoleum often considered more environmentally friendly than vinyl?

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1. (a) What does ‘drying room yellowing’ look like in a linoleum floor?

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1. What causes this effect?

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1. What would your advice be to a client who complains about the yellowing in their finished floor?

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1. (a) Why does linoleum expand slightly across its width when laid into the adhesive?

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1. How do you avoid the problem of the seams peaking due to expansion?

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1. How wet should the adhesive be when you lay the linoleum?

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1. (a) What is the difference in chemical reaction between a heat weld in vinyl and a heat weld in linoleum?

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(b) How should you heat weld a linoleum seam in comparison with a vinyl seam (in terms of temperature setting and speed)?

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5. (a) What do bight marks look like and how are they caused?

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(b) Describe one method for dealing with a bight mark as you lay the linoleum.

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6. (a) If you were cutting strips of border coving from linoleum field material, why should you cut them lengthwise along the sheet rather than across the sheet?

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(b) How would you make the material more flexible when you are curving it over the cove former?

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# Practical demonstrations

The checklist below sets out the sorts of things your trainer will be looking for when you undertake the practical demonstrations for this unit. Make sure you talk to your trainer or supervisor about any of the details that you don’t understand, or aren’t ready to demonstrate, before the assessment event is organised. This will give you time to get the hang of the tasks you will need to perform, so that you’ll feel more confident when the time comes to be assessed.

When you are able to tick all of the YES boxes below you will be ready to carry out the practical demonstration component of this unit.

| Specific performance evidence | YES |
| --- | --- |
| Complete the following installations:   * Cut, lay and heat weld linoleum sheet floor coverings using fillet cove internal and external mitres to custom design and pattern scribe covering (Installation 1) * Cut, lay and heat weld linoleum sheet floor coverings using pre-formed linoleum coving with internal and external mitres to a corridor and connecting room (Inst. 2) * Cut, lay and butt join linoleum sheet floor coverings to single/connecting room (Inst. 3) | ❑  ❑  ❑ |

|  |  |
| --- | --- |
| General performance evidence | YES |
| 1. Follow all relevant WHS laws and regulations, and company policies and procedures | ❑ |
| 1. Read and interpret plans and written instructions relevant to the tasks | ❑ |
| 1. Assess the condition of the subfloor to determine its suitability for the installation job | ❑ |
| 1. Select the appropriate adhesives, trims and accessories | ❑ |
| 1. Select the correct tools and equipment, and carry out all necessary pre-start checks | ❑ |
| 1. Plan the sequence of work tasks to maintain efficiency and quality | ❑ |
| 1. Check the specifications of the linoleum floor covering against the work order | ❑ |
| 1. Acclimatise the floor covering according to the manufacturer’s recommendations | ❑ |
| 1. Identify hazards and control risks when handling materials | ❑ |
| 1. Establish starting point and set out working lines | ❑ |
| 1. Correctly cut and fit soft underlay and/or pre-formed fillet, where required | ❑ |
| 1. Lay out the linoleum to achieve correct directional sequence, pattern match and joins | ❑ |
| 1. Mark and cut the linoleum to the required pattern and shape, with minimal waste | ❑ |
| 1. Use adhesives and edge strips/accessories according to instructions | ❑ |
| 1. Weld and fix the materials safely and efficiently | ❑ |
| 1. Set out and install skirting, reducer and edge strips, where required | ❑ |
| 1. Inspect finished installation for problems and rectify faults, if necessary | ❑ |
| 1. Store or recycle unused materials | ❑ |
| 1. Clean and store tools and equipment appropriately | ❑ |
| 1. Clean up work area and dispose of rubbish properly | ❑ |
| 1. Accurately complete all required documentation | ❑ |