

Level 2 Award in Additive Manufacture (3D Printing)

[General guidance for interpreting OCF qualification levels](#) [1]

Click on the links in the table below for specific guidance on the assessment criteria.

Unit 1, Additive Manufacture (3 credits)

1. use a brief to design 3D objects.

[1.1 explain the need for a specified design.](#) [2]

[1.2 describe design constraints.](#) [4]

[1.3 select appropriate software to develop the design.](#) [6]

[1.4 research information to support a design.](#) [8]

[1.5 create a set of information on which to base a design, starting from a template, image trace or pre-existing object.](#) [10]

[1.6 create a 3D design through customising existing templates or instructions.](#) [12]

[1.7 make checks to ensure the model will print.](#) [14]

[1.8 amend errors and ensure design quality.](#) [16]

2. enable 3D manufacture from a 3D design.

[2.1 export a file for additive manufacture.](#) [3]

[2.2 explain the need for appropriate file format and dimensions.](#) [5]

[2.3 import files into additive manufacture software.](#) [7]

[2.4 use the appropriate settings to create a build file.](#) [9]

[2.5 explain possible issues related to print speed, quality, size and overall outcome.](#) [11]

[2.6 use the 3D printed final product to identify possible improvements.](#) [13]

[2.7 identify how an additive manufacture design can be used alongside or to aid existing design and manufacture processes or systems.](#) [15]

[2.8 communicate a written evaluation of the design process to others.](#) [17]

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- [3] <https://theingots.org/community/sml2u1x#2.1>
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