

Level 1 Award in Additive Manufacturing (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 identify the need for a specified design.](#) [2]

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

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

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

[1.5 create a design, starting from a template, image trace or pre-existing object.](#) [10]

[1.6 make checks to ensure the model will print.](#) [12]

[1.7 amend errors and ensure design quality.](#) [14]

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

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

[2.2 use appropriate file formats 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 identify issues related to print speed, quality, size and overall outcome.](#) [11]

[2.6 identify changes to machine settings to improve build quality.](#) [13]

[2.7 use the final product to identify possible improvements.](#) [15]

[2.8 identify how an additive manufacture design can be used alongside or to aid existing design and manufacture processes.](#) [16]

Source URL: <https://theingots.org/community/11aman>

Links

- [1] https://theingots.org/community/QCF_levels
- [2] <https://theingots.org/community/sml1u1x#1.1>
- [3] <https://theingots.org/community/sml1u1x#2.1>
- [4] <https://theingots.org/community/sml1u1x#1.2>
- [5] <https://theingots.org/community/sml1u1x#2.2>
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