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Courses » Manufacturing Guidelines for Product Design

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## Unit 6 - Week 5

Register for Certification exam

### Course outline

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Week 5

Product Design Guidelines : Compression Molding and Extrusion

Design Guidelines for Extrusion and Injection Molding

Design Guidelines for Sheet Metal Working

Design Guidelines for Machining

Design Guidelines for Powder Metal Processing

## Assignment 5

The due date for submitting this assignment has passed.

As per our records you have not submitted this assignment. **Due on 2019-04-03, 23:59 IST.**

1) Powder metal processing involves steps in the following order: **1 point**

1. Powder manufacture
2. Sintering
3. Compacting of powder in a mould or die
4. Blending of powder

- 1-4-3-2
- 1-2-3-4
- 2-3-4-1
- 3-2-4-1

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
*1-4-3-2*

2) For powder metal processing, walls should not be thinner than: **1 point**

- 0.060 inch
- 0.058 inch
- 0.054 inch
- 0.052 inch

**No, the answer is incorrect.**  
**Score: 0**

**Accepted Answers:**  
*0.060 inch*

3) Recommended stock for finish machining is of the order of; **1 point**

- 0.8 mm

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[Week 7](#)[Week 8](#)[DOWNLOAD VIDEOS](#)[Text Transcript](#)**Accepted Answers:***0.4 mm*

4) In sheet metal working, the MINIMUM width of a slot is equal to:

**1 point**

- Material thickness or 1 mm
- Material thickness + 0.5 mm
- 1.5 mm
- None of these

**No, the answer is incorrect.****Score: 0****Accepted Answers:***Material thickness or 1 mm*

5) In sheet metal working, if the thickness of the sheet is T, the MINIMUM distance of a hole from the edge must be:

**1 point**

- $8T + \text{bend radius}$
- $6T + \text{bend radius}$
- $3T + \text{bend radius}$
- None of these

**No, the answer is incorrect.****Score: 0****Accepted Answers:** *$3T + \text{bend radius}$* 

6) For plastic processing, minimum internal radii for corners must be:

**1 point**

- 2.5 mm
- 2.0 mm
- 1.5 mm
- 1.0 mm

**No, the answer is incorrect.****Score: 0****Accepted Answers:***1.0 mm*

7) For dimples in sheet metal working, if the thickness of the sheet is T, the maximum diameter should be:

**1 point**

- 2T
- 4T
- 6T
- 8T

**No, the answer is incorrect.****Score: 0****Accepted Answers:***6T*

8) Typical range of tolerance for extruded parts of dimensions upto 50 mm is \_\_\_\_\_ .

**1 point**

- $\pm 0.05 \text{ mm}$
- $\pm 0.08 \text{ mm}$

$\pm 0.5$  mm

$\pm 0.8$  mm

No, the answer is incorrect.

Score: 0

Accepted Answers:

$\pm 0.5$  mm

9) For injection molding, the recommended draft angle is \_\_\_\_\_ .

1 point

$2^\circ$

$1.5^\circ$

$1^\circ$

$0.5^\circ$

No, the answer is incorrect.

Score: 0

Accepted Answers:

$1^\circ$

10) The outside diameter of bosses should be \_\_\_\_\_ times the outside diameter of screw or insert (D). **1 point**

2-2.4D

1.5-2D

1.8-2D

1-2D

No, the answer is incorrect.

Score: 0

Accepted Answers:

2-2.4D

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