Unit 344 Applying metal leaf to surfaces in the workplace

22 credits

Level: 3
UAN: J/503/9790

Unit aim:
The aim is to provide you with the necessary skills and knowledge for:

- interpreting information
- adopting safe and healthy working practices
- selecting and preparing materials and associated equipment
- providing protection to the work area
- applying metal leaf safely and with minimal waste
- cleaning and maintaining equipment.

*PER – Portfolio evidence reference SO – Site observation OQ – Oral question WQ – Written question WT – Witness testimony
PS – Product supplementary PD – Professional discussion

Assessment criteria that are practical activities are highlighted in bold.

1. Interpret the given information relating to the work and resources when applying metal leaf to surfaces.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
1.1 **interpret and extract relevant information from:**							
a. **specifications**							
b. **current regulations**							
c. **risk assessments**							
d. **method statements**							
e. **manufacturer's information**							

1.2 **comply with information and/or instructions derived from risk assessments and method statements**							
1.3 describe the organisational procedures developed to report and rectify inappropriate information and unsuitable resources and how they are implemented							
1.4 describe different types of information, their source and how they are interpreted in relation to:							
a. specifications							
b. current legislation							
c. risk assessments							
d. method statements							
e. manufacturer's information.							

2. Know how to comply with relevant legislation and official guidance when applying metal leaf to surfaces.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
2.1 describe your responsibilities regarding potential accidents and health hazards, whilst working:							
a. in the workplace							
b. in confined spaces							
c. at height							
d. with tools and equipment							
e. with materials and substances							
f. with movement/storage of materials							
g. by manual handling							
2.2 describe the organisational security procedures for:							
a. tools							
b. equipment							
c. personal belongings							
in relation to:							

a. site							
b. workplace							
c. company							
d. operative							
2.3 explain what the accident reporting procedures are and who is responsible for making reports.							

3. Maintain safe and healthy working practices when applying metal leaf to surfaces.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
3.1 **use health and safety control equipment and access equipment to carry out the activity in accordance with current legislation and organisational requirements when applying metal leaf to surfaces**							
3.2 **comply with information relating to specific risks to health when applying metal leaf to surfaces**							
3.3 explain why and when health and safety control equipment, identified by the principles of protection, should be used, relating to applying metal leaf to surfaces, and the:							
a. types							
b. purpose							
c. limitations							
of each type, the work situation and general work environment, in relation to:							
a. collective protective measures							
b. Personal Protective Equipment (PPE)							
c. Respiratory Protective Equipment (RPE)							
d. Local Exhaust Ventilation (LEV)							
3.4 describe how the relevant health and safety control equipment should be used in accordance with the given instructions							
3.5 describe how emergencies should be responded to in accordance with organisational authorisation and personal skills when involved with:							
a. fires							

b. spillages							
c. injuries							
d. other task-related hazards.							

4. Select the required quantity and quality of resources for the methods of work to apply metal leaf to surfaces.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
4.1 **select resources associated with own work in relation to:**							
a. **materials**							
b. **tools**							
c. **equipment**							
4.2 describe the:							
a. characteristics							
b. quality							
c. uses							
d. sustainability							
e. limitations							
f. defects							
associated with the resources in relation to:							
a. loose leaf metal or transfer metal							
b. gold size							
c. barrier coat							
d. cotton wool							
e. rubbish containers/bags and skewing bags							
f. access equipment							

g. hand tools							
h. associated equipment							
4.3 describe how the resources should be used correctly and how problems associated with the resources are reported							
4.4 explain why the organisational procedures have been developed and how they are used for the selection of required resources							
4.5 describe any potential hazards associated with the resources and methods of work							
4.6 describe how to calculate quantity of material required associated with the method/procedure to apply metal leaf to surfaces.							

5. Minimise the risk of damage to the work and surrounding area when applying metal leaf to surfaces.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
5.1 **protect the work and its surrounding area from damage in accordance with safe working practices and organisational procedures**							
5.2 **minimise damage and maintain a clean work space**							
5.3 **dispose of waste in accordance with current legislation**							
5.4 describe how to protect work from damage and the purpose of protection in relation to:							
a. general workplace activities							
b. other occupations							
c. adverse weather conditions							
5.5 explain why the disposal of waste should be carried out safely in accordance with:							
a. environmental responsibilities							
b. organisational procedures							
c. manufacturer's information							
d. statutory regulations							
e. official guidance.							

6. Complete the work within the allocated time when applying metal leaf to surfaces.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
6.1 **demonstrate completion of the work within the allocated time**							
6.2 describe the purpose of the work programme and explain why deadlines should be kept in relation to:							
a. types of progress charts, timetables and estimated times							
b. organisational procedures for reporting circumstances which will affect the work programme.							

7. Comply with the given contract information to apply metal leaf to surfaces to the required specification.							
You must be able to:	*PER	SO	OQ	WQ	WT	PS	PD
7.1 **demonstrate the following work skills when applying metal leaf to surfaces:**							
a. **applying**							
b. **cutting**							
c. **picking-up**							
d. **laying-on**							
e. **burnishing**							
7.2 **apply appropriate barrier coat as specified**							
7.3 **apply gold size and loose leaf metal, and/or transfer metal and burnish, to given working instructions to:**							
a. **flat areas**							
b. **detailed/ornate areas**							
7.4 **safely use:**							
a. **materials**							
b. **hand tools**							
c. **associated equipment**							

7.5 **safely store the:**							
a. **materials**							
b. **tools**							
c. **equipment**							
used when applying metal leaf to surfaces							
7.6 describe how to apply safe and healthy work practices, follow procedures, report problems and establish the authority needed to rectify them, to:							
a. establish access requirements							
b. check suitability of previously prepared surfaces							
c. clean surfaces for application							
d. prepare and apply suitable barrier coat							
e. identify starting and finishing points							
f. prepare and apply solvent-borne and water-borne gold size and loose leaf metal and transfer metal to flat and irregular surfaces							
g. remove barrier coat from finished work							
h. burnish metal surfaces							
i. apply protective coatings							
j. skew surplus							
k. identify how atmospheric conditions affect coatings and their application process							
l. use access equipment							
m. use hand tools and associated equipment							
7.7 describe the needs of other occupations and how to effectively communicate within a team when applying metal leaf to surfaces							
7.8 describe how to maintain the tools and equipment used when applying metal leaf to surfaces.							

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Declaration

I confirm that the evidence supplied for the above unit is authentic and a true representation of my own work. The work logged is my own work carried out during my normal work duties.

Candidate name:	
Candidate signature:	
Date:	

I confirm that this candidate has achieved all the requirements of this unit with the evidence listed. Assessment was conducted under the specified conditions and context, and is valid, authentic, reliable, current and sufficient.

Assessor name:	
Assessor signature:	
Date:	

IQA name:	
IQA signature:	
Date:	