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| **Cadre de réponse – Mémoire technique** |

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| --- |
| **Tour à commande numérique**  **AN25.40** |

**Ecole Nationale Supérieure d'Arts et Métiers**

**Service achats et commande publique**

151 BOULEVARD DE L'HOPITAL

75013 PARIS

Ce cadre de mémoire ne sera en aucun cas un document d’information générale mais devra être rédigé spécialement pour le présent marché en prenant en compte ses spécificités.

**Cadre de réponse du mémoire technique : un maximum de 30 pages (15 feuilles recto verso) est demandé (Préconisation). Le candidat peut transmettre des annexes généralistes, s’il le souhaite, toutefois, celles-ci ne rentreront pas dans la notation.**

Critère n°1 : prix des prestations - pour **30 points**.

Critère n°2 : valeur technique – pour **35 points**.

Critère 2-1 : Typologie du bâti / **5 points**

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Critère 2-2 : Performance du système hydraulique pour le mandrin (changement des mors) et la contre-pointe / **3 points**

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Critère 2-3 : Captation de données : surveillance machine, capteurs…/ **4 points**

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Critère 2-4 : Ergonomie de l’interface IHM : module conversationnel, interface machine, ergonomie du poste de travail / **5 points**

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Critère 2-5 : Protection et accessibilité : bonne visibilité de la zone de coupe et grande ouverture de porte / **3 points**

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Critère 2-6 : Capacité d’automatisation de l’ouverture/fermeture des portes (code M programmé) / **5 points**

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Critère 2-7 : Visualisation interface homme/machine : facilité de visualisation des modes d’exploitation / **6 points**

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Critère 2-8 : CAO de la cinématique des éléments mobiles et portes / **2 points**

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Critère 2-9 : Performance du dispositif d’arrosage / **2 points**

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Critère 3 : Livraison et installation du matériel – pour **5 points**

3.1 : Délai de livraison à compter de la notification du marché / **3 points**

3.2 : Délai d’installation / **2 points**

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

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Critère 4 : Formation – pour **5 points**

4.1 : Modalités de formation (nombre de jours, etc.) / **3 points**

4.2 : Type et contenu de la formation et fourniture des supports / **2 points**

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Critère 5 : Maintenance et entretien – pour **10 points**

5.1 : Disponibilité des pièces sur stock / **5 points**

5.2 : Réactivité d’un service de maintenance / **5 points**

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

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Critère 6 : Garantie – pour **5 points**

6.1 : Durée de la garantie sur les pièces, sur la main d’œuvre et déplacement / **3 points**

6.2 : Détail sur l’organisation mise en place pour respecter l’engagement sur la période de garantie / **2 points**

…………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

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Critère 7 : Responsabilité sociétale dans le cadre du marché – pour **5 points**

7.1 : Actions sur l'égalité Femmes-Hommes / **2 points**

7.2 : Politique en matière de bien-être au travail / **2 points**

7.3 : Politique inclusive ou pratiques solidaires / **1 point**

………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………………

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Critère 8 : Performance environnementale en lien avec le marché – pour **5 points**

8.1. : Fabrication du produit / **1,5 points**

(*Usage de composants et proposition éco-responsables de la structure / 1 point*

*Limitation des déchets / 0.5 point)*

8.2 : Modalités de transport et de livraison / **1,5 points**

*(Types de véhicules / 1 point*

*Optimisation des circuits de collecte en vue de réduire les consommations et émissions de polluants /0.5 point)*

8.3 : Gestion des déchets / **2 points**

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**DATE, CACHET ET SIGNATURE**